

# City of San Diego



## CITY CONTACT

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M. Liaghat / A. Rekani / LJI

## REQUEST FOR PROPOSAL



Orion Construction Corp./Balboa Construction JV  
2185 La Mirada Drive  
Vista, CA 92081

### FOR

**MACC TASK NUMBER: 03**

### AC Water Group 1019

RFQ NO.: 1293

RFP NO.: K-16-1400-MAC-3

SAP NO. (WBS/IO/CC): B-15112

CLIENT DEPARTMENT: 2013

COUNCIL DISTRICT: 4

PROJECT TYPE: KA

#### THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- PHASED-FUNDING
- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE
- APPRENTICESHIP

#### PROPOSALS DUE:

**12:00 NOON**

**MAY 9, 2016**

**CITY OF SAN DIEGO**

**PUBLIC WORKS CONTRACTS**

**1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C**

**SAN DIEGO, CA 92101**

**ATTN: CONTRACT SPECIALIST**

ORIGINAL

## TABLE OF CONTENTS

SECTION	PAGE NUMBER
<b>1. REQUEST FOR PROPOSAL</b>	
1. INTRODUCTION .....	3
2. SUMMARY OF WORK .....	3
3. PROPOSAL DUE DATE AND TIME .....	3
4. ESTIMATED PROJECT COST .....	3
5. CONTRACT PERIOD .....	3
6. PREVAILING WAGES .....	3
7. PHASED FUNDING.....	3
8. CONTRACTOR LICENSE AND PREQUALIFICATION STATUS .....	4
9. SELECTION AND AWARD SCHEDULE .....	4
10. PRE-PROPOSAL MEETING AND SITE VISIT .....	4
11. SUBCONTRACTING PARTICIPATION PERCENTAGES.....	5
<b>2. INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS</b>	
<b>3. ATTACHMENTS</b>	
A. PROJECT DESCRIPTION, SCOPE OF WORK, TECHNICAL SPECIFICATIONS, AND BRIDGING DOCUMENTS .....	18
B. PHASE FUNDING PROVISIONS .....	58
C. INTENTIONALLY LEFT BLANK .....	61
D. PREVAILING WAGES .....	62
E. SUPPLEMENTARY SPECIAL PROVISIONS (SSP).....	66
1) Appendix A – Notice of Exemption.....	82
2) Appendix B – Fire Hydrant Meter Program .....	84
3) Appendix C – Materials Typically Accepted by Certificate of Compliance ..	98
4) Appendix D – Sample City Invoice .....	100
5) Appendix E – Location Map.....	102
6) Appendix F – Hydrostatic Discharge Form .....	104
7) Appendix G – Adjacent Projects .....	106
8) Appendix H – Hazardous Label/Forms.....	108
9) Appendix I – Preliminary Environmental Assessment Memo .....	114
10) Appendix J – Sample of Public Notices .....	130
F. INTENTIONALLY LEFT BLANK .....	132
G. PROPOSAL SUBMITTAL REQUIREMENTS AND SELECTION CRITERIA .....	133
H. PRICE PROPOSAL FORMS .....	139
I. CERTIFICATIONS AND FORMS.....	143
J. MACC TASK ORDER DESIGN-BUILD AGREEMENT .....	157

## REQUEST FOR PROPOSAL

### 1. INTRODUCTION

- 1.1. This is the City of San Diego's (City) second step in the two-step solicitation process to acquire Design-Build services for the **AC Water Group 1019** project.
- 1.2. Pursuant to the City's Request for Qualifications (RFQ) #1293, this RFP is being issued exclusively to the previously selected firms who have each been awarded a Multiple Award Construction Contract (MACC) with the City:
  - 1.2.1. CASS Construction.
  - 1.2.2. El Cajon Grading & Engineering Company, Inc.
  - 1.2.3. Orion Construction Corp./Balboa Construction, Inc. J.V.
  - 1.2.4. TC Construction Company.
- 1.3. All MACC awardees are to submit a responsive good-faith Proposal for this Task Order. Failure to do so may result in the City's rescinding the award of the MACC contract. MACC awardees who fail to submit Proposals twice in twelve month period may have their MACC contract rescinded and be ineligible to submit future proposals.
- 1.4. Failure to submit all requested information in accordance with the requirements of the RFP may be cause for disqualification.

2. **SUMMARY OF WORK:** Replace 16,809 LF (3.18 miles) of existing, 6-inch and 8-inch asbestos cement (AC) water mains with 16,809 LF (3.18 miles) of 8-inch polyvinyl chloride (PVC) pipe. Separation permission from the State of California, Department of Health may be required on Brookline St., Date Pl., Deaton Dr., Dafter Pl., Dafter Dr., Duval St., Elm St., and Fir St. for separation of water and sewer. Also included associated water services, fire hydrants, curb ramps, traffic control, etc. This project is located in Council District 4, within the Mid-City, Eastern Area.

The work is proposed to be replace-in-place using the open trench construction within City right-of-way.

For additional information refer to Attachment A.

3. **PROPOSAL DUE DATE AND TIME ARE:** May 9, 2019 at 12:00PM.
4. **ESTIMATED PROJECT COST:** The City's estimated cost for this project is \$4,550,000.
5. **CONTRACT PERIOD:** Project shall be completed, within **440 Working Days** from the Notice to Proceed (NTP).
6. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
7. **PHASED FUNDING:** For Phased Funding Conditions, see Attachment B.

**8. CONTRACTOR LICENSE AND PREQUALIFICATION STATUS:**

- 8.1. The Design-Builder must possess a **Class A** or **C34** California State Contractor's license.
- 8.2. The Design-Builder must be prequalified up to the total amount proposed, including any alternates or options, at the time of submission of the proposal.
- 8.3. The Design-Builder's California State License and City of San Diego prequalification status as specified in the RFQ must be valid at time of submission.

**9. SELECTION AND AWARD SCHEDULE:**

- 9.1. The City anticipates that the process for selecting a Design-Builder and awarding the contract will be according to the following tentative schedule. Dates are subject to change:

9.1.1. Pre-Proposal Meeting            April 20, 2016

9.1.2. Proposal Due Date                May 9, 2016

9.1.3. Selection and Notification        May 17, 2016

9.1.4. Limited Notice to Proceed        May 31, 2016

**10. PRE-PROPOSAL MEETING AND SITE VISIT:**

- 10.1. Those wishing to submit a Bid are **required** to attend the Pre-Bid Meeting. The purpose of the meeting is to discuss the scope of the Project, submittal requirements, the pre-qualification process and any Equal Opportunity Contracting Program requirements and reporting procedures. To request a sign language or oral interpreter for this visit, call the Public Works Contracts Division at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. **Failure to attend the Mandatory Pre-Bid Meeting shall result in the Design-Builder's Bid being deemed non-responsive.** The Pre-Bid meeting is scheduled as follows:

**Date:            April 20, 2016**

**Time            10:00 AM**

**Location:      1010 Second Ave, Suite 1400, San Diego, Ca 92101**

Attendance at the Pre-Submittal Meeting will be evidenced by the Bidder's representative's signature on the attendance roster. It is the responsibility of the Bidder's representative to complete and sign the attendance roster.

**Design -Builders may not be admitted after the specified start time of the mandatory Pre-Bid Meeting.**

**10.2. Pre-Proposal Site Visit**

**10.2.1.** No Pre-Proposal Site visit is scheduled for the Work. The Design Builders may request access to the site, if needed to complete their proposal, by calling the Public Works Contracts at (619) 533-3450 at least 2 Days prior to the date requested for access.

**11. SUBCONTRACTING PARTICIPATION PERCENTAGES:**

**11.1.** All Equal Opportunity Contracting (EOC) information provided by the Design-Builder and requirements set forth in the RFQ shall apply to the RFP process. The Design-Builder shall review the information, data, and documentation provided in the Design-Builder's SOQ and changes shall be clearly identified in the Proposal; otherwise the information, as previously submitted, will be deemed complete and accurate.

**11.2.** The mandatory minimum subcontractor participation percentages for this RFP are as follows:

<b>SERVICES</b>	<b>SLBE</b>	<b>ELBE</b>	<b>DVBE</b>	<b>Subcontracting Requirement<sup>1</sup></b>
<b>Design Services</b>	5.20%	7.90%	1.60 %	<b>14.70 %</b>
<b>Construction Services</b>	6.20%	16.10%	4.00%	<b>26.30 %</b>

Notes:

1. Subcontracting Requirement is the percentage of the individual contract elements i.e., Design Services or Construction Services.
- 11.3.** The Design-Builder shall submit subcontractor participation percentages that are not less than the specified subcontracting requirements.
- 11.4.** The required subcontracting percentages apply to 1st tier Subcontractors only.
- 11.5.** For the purpose of achieving the proposed subcontractor participation percentage, Allowance Proposal Items will not be included in the calculation. The Design-Builder may not substitute DVBE for SLBE/ELBE or SLBE/ELBE for DVBE. Subcontracting percentages for design and construction may not be substituted for one another.
- 11.6.** The Proposal shall be deemed non-responsive if the Subcontractor and Supplier listings submitted and enclosed with the Price Proposal fail to meet the above minimum required subcontracting participation levels.

## INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS

### 1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting proposals must be pre-qualified for the total amount proposed, inclusive of all alternate items or specified Task Order limits prior to the date of submittal. Proposals from contractors who have not been pre-qualified as applicable and Proposals that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award. Complete information and links to the on-line prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>

- 1.2. The completed application must be submitted online no later than 2 weeks prior to the Proposal due date. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or [dstucky@sandiego.gov](mailto:dstucky@sandiego.gov).
- 1.3. Due to the City's fiduciary requirement to safeguard vendor data, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on PlanetBids<sup>TM</sup>.

### 2. ELECTRONIC FORMAT RECEIPT AND OPENING OF PROPOSALS: Proposals will be received in electronic format (eBids) EXCLUSIVELY at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.

- 2.1. **PROPOSERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit and electronic proposal.
- 2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
- 2.3. Upon entry of their proposal, the system will ensure that all required fields are entered. **The system will not accept a proposal for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.
- 2.4. **PROPOSALS REMAIN SEALED UNTIL DUE DATE AND TIME.** eBids and eProposals are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from

Verisign/Thawte which encrypts data being transferred from client to server. Proposals submitted prior to the Due Date and Time are not available for review by anyone other than the submitter, who will have until the Due Date and Time to change, rescind or retrieve its proposal should they desire to do so.

**2.5. PROPOSALS MUST BE SUBMITTED BY DUE DATE AND TIME.** Once the deadline is reached, no further submissions are accepted into the system. Once the Due Date and Time has passed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, Equal Opportunity Contracting Program (EOCP) compliance and other issues.

**2.6. TECHNICAL PROPOSAL AND PRICE PROPOSAL ARE TO BE SEPARATE.** The proposer is to submit two separate proposal PDFs by the due date and time.

1. The Technical proposal, which should contain the items detailed below and in Attachment G. There is to be **NO PRICING** information within this proposal. If a Technical proposal contains pricing information, the submission may be deemed non-responsive and ineligible for further consideration, and

2. The Price proposal, which should detail the cost structure and include any forms as required herein.

**2.7. RECAPITULATION OF THE WORK.** Proposals shall not contain any recapitulation of the Work. Conditional proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

**2.8. PROPOSALS MAY BE WITHDRAWN** by the Proposer prior to, but not after, the time set as Due Date and Time.

**2.8.1. Important Note:** Submission of the electronic proposal into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the proposer's submission to upload and be received by the City's eBidding system. It is the proposer's sole responsibility to ensure their proposals are received on time by the City's eBidding system. The City of San Diego is not responsible for proposals that do not arrive by the required date and time.

**2.9. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE.** : To request a copy of this solicitation in an alternative format, contact the Public Works Contract Specialist listed in the cover of this solicitation at least five (5) working days prior to the Proposal due date to ensure availability.

### **3. ELECTRONIC SUBMISSIONS CARRY FULL FORCE AND EFFECT**

**3.1.** The proposer, by submitting its electronic proposal, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.

**3.2.** By submitting an electronic proposal, the proposer certifies that the proposer has

thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its proposal, the proposer acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.

- 3.3. The Proposer, by submitting their electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this proposal are true and correct.
4. **PROPOSALS ARE PUBLIC RECORDS:** Upon receipt by the City, proposals shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the proposal's General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
5. **CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**
  - 5.1. **Prior** to the award of the Contract, the Design-Builder, Subcontractors, and Suppliers must register with the City's web-based vendor registration and bid management system, BidsOnline™ hosted by PlanetBids System. For additional information go to:  
  
<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>.
  - 5.2. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.
  - 5.3. Following the award of the Contract, the Design-Builder will be required to use the City's web-based contract compliance application for EOCP reporting purposes e.g., Weekly Certified Payroll, Monthly Employment Utilization, and Monthly Payments.
  - 5.4. The City may retain progress payments if the non-registered Design-Builder, subcontractors, or Suppliers fail to register, or if the EOCP reporting is delinquent or inadequate.
6. **JOINT VENTURE CONTRACTORS: Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 2-1.1.2, "Joint Venture Contractors" in The WHITEBOOK for**
  - 6.1. Each properly signed Proposal shall constitute a firm offer that may be accepted by the City within the time frame specified herein.



- 6.2. This RFP will not commit the City to award a contract, to defray any costs incurred in the preparation of a Proposal pursuant to this RFP, or to procure or contract for the Work.
- 6.3. Upon receipt by the City, Proposals shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Proposal. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
- 6.4. Selection announcements, contract awards, and all data provided by the City shall be protected by the Design-Builder from public disclosure. The Design-Builders desiring to release information to the public shall receive prior written approval from the City.
- 6.5. Design-Builders who submit a response to this RFP agree to provide the required services in accordance with the terms and conditions noted in this RFP and its attachments upon award by the City. The agreement and other terms and conditions are included in the Design-Build Contract, The GREENBOOK, The WHITEBOOK, and the Supplementary Special Provisions (SSP).
- 6.6. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting the RFPs or the Project's preliminary design may not be eligible to participate in the competition with any Design-Build Entity without the prior written consent of City. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting any Reference Documents, such as the Water Department's Master Plan and any other document that was not prepared specifically for this contract, are considered to be eligible to participate.

## **7. EQUAL OPPORTUNITY CONTRACTING**

- 7.1. As set forth in this RFP, the City is dedicated to the principles of equal opportunity in the workplace and in subcontracting. It is the City's expectation that firms doing business with the City have, and are able to demonstrate, the same level of commitment.
- 7.2. The Design-Builders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all eligible certified Subcontractors in accordance with the City's EOCP requirements included in the Contract Documents.

**7.3. Design-Builder's Work Force**

**7.3.1.** The Design-Builders shall submit with its Proposal a Work Force Report (EOC Form BB05) and prior to award of contract, the successful Design-Builder shall submit to the City's EOCP office an updated Work Force Report or an Equal Employment Opportunity (EEO) Plan.

**7.3.2.** If under representations are noted in the Work Force Report when compared to County Labor Force Availability data, the Design-Builder shall submit an Equal Opportunity Plan. Any Equal Employment Opportunity Plan submitted shall include the elements as outlined in the EOCP Requirements included in The WHITEBOOK.

**7.3.3.** The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

<http://www.sandiego.gov/eoc/forms/index.shtml>

**7.4. Nondiscrimination Ordinance (Municipal Code §§ 22.2701-22.2708)**

**7.4.1.** The Design-Builder shall not discriminate on the basis of race, gender, religion, national origin, ethnicity, sexual orientation, age or disability in the solicitation, selection, hiring or treatment of the Subcontractors and Suppliers. The Design-Builder shall provide equal opportunity for Subcontractors to participate in subcontracting opportunities. The Design-Builder understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment or other sanctions.

**7.4.2.** This language shall be in contracts between the Design-Builder and any Subcontractors and Suppliers.

**7.4.3.** As part of its Proposal, the Design-Builder shall provide to the City a list of all instances within the last 10 years where a complaint was filed or pending against Design-Builder in a legal or administrative proceeding alleging that Design-Builder discriminated against its employees, the Subcontractors, or Suppliers, and a description of the status or resolution of that complaint, including any remedial action taken. If there have not been any complaints filed or pending against Design-Builder, a written statement from the Design-Builder to confirm shall be included in the Proposal.

**8. CONTRACTOR'S LICENSE CLASSIFICATION AND PRE-QUALIFICATION STATUS**

**8.1.** The Design-Builder's California State License and City of San Diego prequalification status as specified herein must be valid at time of submission. Failure to comply with these requirements may result in the proposal being deemed non responsive and ineligible for further consideration.

**8.2.** Design-Builders interested in submitting a proposal for this Project shall be pre-qualified through the City's Prequalification program:

- 8.2.1.** The Design-Builders must submit a complete prequalification application online to the Public Works Contracts, Prequalification Program no later than 2 weeks prior to **the Proposal due date and time**. Complete information and links to the online prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>

- 8.2.2.** For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or [dstucky@sandiego.gov](mailto:dstucky@sandiego.gov).

- 8.2.3.** Due to the City's fiduciary requirement to safeguard vendor data, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on PlanetBids™.

## **9. PRE-PROPOSAL ACTIVITIES**

### **9.1. Submission of Questions**

- 9.1.1.** The Director (or designee) of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Proposals submitted to the City for the acquisition, construction, and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:

Public Works Contracts  
1010 Second Avenue, 14<sup>th</sup> Floor  
San Diego, California, 92101  
Attention: Contract Specialist listed on the front cover of this RFP.

OR:

To the Email address of the Contract Specialist listed on the front cover of this RFP.

- 9.1.2.** Questions received less than 14 Days prior to the Proposal due date may not be considered.
- 9.1.3.** Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- 9.1.4.** Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Design-Builder's responsibility to be informed of any Addenda that have been issued and to adjust its Proposal accordingly.

## **9.2. Revisions to the RFP**

The City, at its option, may respond to any or all questions submitted in writing via the City's eBidding web site in the form of an addendum. No other responses to questions, oral or written, shall be of any force or effect with respect to this solicitation.

Any changes to the Contract Documents through addendum are made effective as though originally issued with the Proposal. The Design-Builders shall acknowledge the receipt of Addenda at the time of Proposal submission.

## **10. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK**

**10.1.** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/> Plans and Specifications for this contract are also available for review in the office of Public Works Contracts.

**10.2.** The Design-Builders shall carefully examine the Project Site, the Plans and Specifications, and other materials as described in or referenced by this RFP. The submission of a Proposal shall be conclusive evidence that the Design-Builder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work, the quantities of materials to be furnished, local conditions, and as to the requirements of the Contract Documents.

**11. CHANGES TO THE SCOPE OF WORK:** Once a proposal has been accepted by the City and the award has been made, the Design-Builder shall immediately notify the City in writing of any proposed or anticipated change in the scope, contract amount, or contract time; and shall obtain the City's written consent to the change(s) prior to affecting them. In no event shall the City's consent be construed to relieve the Design-Builder from its duty to render all work and services in accordance with applicable laws and accepted industry standards

**12. DESIGN SUBMITTALS:** The City's review of the Design-Builder's Design Submittals shall not relieve the Design-Builder from its responsibilities under the Contract, or be deemed to be an acceptance or waiver by City of any deviation from, or of the Design-Builder's failure to comply with, any provision or requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted for acceptance by the Design-Builder and accepted by City. Where approval or acceptance by City is required, it is understood to be general approval only, and does not relieve the Design-Builder of responsibility for complying with all applicable laws and good professional practices as the Design-Builder shall be the Engineer of Record.

**13. BONDS AND INSURANCE:** Prior to the award of the Contract (or Task Order), the Design-Builders shall submit evidence of separate bonds and insurance as specified in Sections 2-4, "CONTRACT BONDS," 7-3, "LIABILITY INSURANCE," and 7-4, "WORKERS' COMPENSATION INSURANCE" of the City's standard specifications for public works constructions unless specified otherwise in the Contract Documents.

**14. SUBMITTAL REQUIREMENTS: PROPOSALS MUST BE RECEIVED NO LATER THAN THE DUE DATE AND TIME.** Proposals may be withdrawn by the Design-Builder only up to the proposal due date and time.

**IMPORTANT NOTE:** Submission of the electronic proposals into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure that their bids are received on time by the City's eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.

**14.1. TECHNICAL PROPOSAL REQUIREMENTS:** Technical Proposals submitted in response to this RFP shall be in the following order and shall include:

- Legal name of company.
- Legal form of entity (partnership, corporation, joint venture, or other). If joint venture, identify the members of the joint venture, and provide all information required under this section for each member.
- Year of establishment of entity.
- If company is subsidiary of a parent company, identify the parent company.
- Address of main office.
- Address of San Diego satellite office if applicable.
- Contact information for firm, including name, title, email address and telephone number.
- Number of employees in San Diego County.
- Applicable License(s):
- City of San Diego Business License Number, including expiration date.
- State Contractor's License Number including expiration date, and all classifications.
- Professional Engineering/Architect License Number, including expiration date.
- Failure to provide all required information may result in the Proposal being considered non-responsive and ineligible for further consideration.

**14.1.1.** The Technical Proposal shall be concise, well organized, and demonstrate the Design-Builder's qualifications and experience applicable to the Project. The Technical Proposal shall be limited to 50 one-sided pages (8<sup>1/2</sup>" x 11"), exclusive of resumes, graphics, forms, pictures, photographs, dividers, front and back cover, etc., that address the Technical Proposal contents; and of Equal Opportunity Contracting documentation. Font Type shall be Times New Roman in a minimum 12 Point font size, with a minimum 1" margin for text pages. A cover letter may be submitted but shall not contain any information that is a required element of the Technical Proposal. Any Technical Proposal that does not comply with these formatting standards may not be considered.

**14.1.2.** The Technical Proposals submitted in response to this RFP shall be in accordance with the requirements listed in ATTACHMENT G. The contents of the Technical Proposal shall be organized consistent with the format in Attachment G.

**14.1.3.** Design elements which deviate from the Scope of Work, City's design guidelines, or material substitutions which differ from the Approved Material List shall be highlighted in accordance with Attachment G.

14.1.4. Failure to comply with this section may render the Design-Builder's submittal non-responsive and ineligible for further consideration.

## 14.2. PRICE PROPOSAL REQUIREMENTS

14.2.1. A clearly marked, signed PDF of the Price Proposal is to be submitted in a separate PDF. This **is not** to be included with the Technical proposal. Refer to Attachment H of this RFP for any Price Proposal forms required to be used.

14.2.2. The Price Proposal shall be signed by an individual or individuals authorized to execute legal documents on behalf of the Design-Builder.

14.2.3. The lowest proposed price is not the determining factor for award of this contract. See Attachment G for the criteria by which the proposals will be evaluated.

14.2.4. In the event of any discrepancies, written numbers will govern over numerical. Also, the sum of all lump sum line items, unit price line items, allowance line items and any other priced items will govern over the "Total Design-Build Proposal" line item.

14.2.5. The required EOCP information such as Subcontractor and Supplier listings shall be submitted as part of the Price Proposal.

## 15. SELECTION CRITERIA AND SCORING

15.1. An evaluation Panel comprised of representatives from the City will be established for this Project. The Panel may also include other interested parties such as additional participating agencies, representative from the community and other appropriate agencies such as the State Water Resource Control Board.

15.2. Proposals will be ranked according to the selection criteria set forth in Attachment G.

15.3. The Panel will review all proposals received. Interviews or presentations will be conducted as needed in accordance with Attachment G.

15.4. Based upon this technical review, the Panel will rank the Design-Builders' proposals in accordance with the selection criteria set forth in Attachment G of this RFP.

15.5. Once the Technical Proposals have been ranked by the Panel, the Design-Builders' price proposals will be made available to the panel and forwarded to EOCP for review and calculation of subcontractor participation.

## 16. AWARD

16.1. After the Technical Proposals have been evaluated, scored and ranked; the Price proposals will be factored in according to the criteria set forth in Attachment G. A Design-Builder selection will then be made.

16.2. The City will announce in writing to all the RFP participants the selected Design-Builder. The announcement will show the results of the evaluation. This notification

to the Design-Builders shall constitute the public announcement of the selected Design-Builder. In the event that the selected Design-Builder is subsequently deemed non-responsive or non-responsible, a new public announcement will be provided to all proposers with the name of the newly designated selected Design-Builder.

- 16.3.** To obtain the price Proposal results, view the results on the City’s web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the Proposal name and number. The Proposal tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

**17. ADDITIONAL POLICIES, PROCEDURES, TERMS AND CONDITIONS**

- 17.1.** The Program's Selection Process is based on the policies, procedures and guidelines set forth in the City Municipal Code Chapter 2, Article 2, Division 33.
- 17.2. Protests.** A Design-Builder may protest the award of the Contract to another Design-Builder in accordance with San Diego Municipal Code.
- 17.3. Changes to Key Personnel and Substitution of Subcontractors.** The Design-Builder shall not change or substitute any individual that is identified in its proposal as “key personnel” without the written consent of the City. The Design-Builder shall not change or substitute any material, supplier, or subcontractor identified in its Proposal without written consent of the City. The City’s consent will not be unreasonably withheld.
- 17.4. Project Team.** The Design-Builder shall maintain all representations, team members, and proposed tasks and work elements as valid, except for the schedule which may be adjusted as mutually agreed upon by the City and the Design-Builder.
- 17.5. Submittal of “Or Equal” Items.** See 4-1.6, “Trade Names or Equals” in the SSP and as modified by the Scope of Work ATTACHMENT A.
- 17.6. Subcontract Limitations.** The Design-Builder’s attention is directed to Standard Specification for Public Works Construction, Section 2-3, “SUBCONTRACTS” which requires the Design-Builder to perform not less than the specified amount under this RFP. Failure to comply shall render the Proposal non-responsive.
- 17.7. San Diego Business Tax Certificate.** All Contractors, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Contract can be executed.
- 17.8. City Standard Provisions.** The work resulting from this RFP is subject to the following standard provisions. See The WHITEBOOK for details.
- 17.8.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 17.8.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.

- 17.8.3. The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 17.8.4. The City of San Diego’s Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 17.8.5. Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 17.8.6. The City’s Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 17.8.7. The City’s Information Security Policy (ISP) as defined in the City’s Administrative Regulation 90.63.

17.9. **Prevailing Wage Rates Apply:** Refer to Attachment D.

17.10. **Reference Standards:**

17.10.1. Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction (“The GREENBOOK”) – <a href="http://www.greenbookspecs.org/">http://www.greenbookspecs.org/</a>	2015	PWPI070116-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)*	2015	PWPI070116-02
City of San Diego Standard Drawings*	2016	PWPI070116-03
Caltrans Standard Specifications	2010	PITS070112-04
Caltrans Standard Plans	2010	PITS070112-05
California MUTCD	2012	PITS070112-06
City Standard Drawings - Updates Approved For Use (when specified)*	Varies	Varies
Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause Dated 09-11-84	1984	769023
NOTE: *Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a>		



## ATTACHMENTS

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**ATTACHMENT A**

**PROJECT DESCRIPTION, SCOPE OF WORK, AND TECHNICAL SPECIFICATIONS  
(BRIDGING DOCUMENTS)**

## ATTACHMENT A

### PROJECT DESCRIPTION, SCOPE OF WORK, AND TECHNICAL SPECIFICATIONS (BRIDGING DOCUMENTS)

#### INDEX

1. Project Description
2. Scope of Work
3. City Services
4. City Provided Information
5. Review of the Design-Builder's Design Submittals
6. Community Input
7. Photo Log and Videotape
8. Coordination
9. Existing Information
10. Requests for Clarifications or Information
11. Substitutions
12. Design Criteria and Procedure for Review of Design Materials
13. Surveying
14. As-built information
15. Environmental and Permit Support
16. Owner/Governmental Approvals
17. Geotechnical Investigation
18. Corrosion Survey Report
19. Potholing
20. Review of Contract Documents and Field Conditions
21. Local Conditions
22. Access to the Work
23. Supervision
24. Authorization to Proceed
25. Design Calculations
26. Plan Checks - at major completion levels, Design
27. Shop Drawings, Material Submittals and Samples
28. Design Development
29. Design Submittals
30. Community Relations and Public Outreach Program
31. Quality Assurance and Control
32. Quality Assurance / Quality Control Guidelines
33. Noise Abatement and Control
34. Project Meetings
35. Red-lines
36. Record Keeping
37. Required Test/Material Certificates
38. Traffic Control
39. Reference Standards
40. Design Guidelines
41. Bridging Documents
42. Supplemental Requirements

## ATTACHMENT A

### PROJECT DESCRIPTION, SCOPE OF WORK, AND TECHNICAL SPECIFICATIONS (BRIDGING DOCUMENTS)

#### PUBLIC WORKS DEPARTMENT

#### 1. Project Description:

Replace 16,809 LF (3.18 miles) of existing, 6-inch and 8-inch asbestos cement (AC) water mains with 16,809 LF (3.18 miles) of 8-inch polyvinyl chloride (PVC) pipe. Separation permission from the State of California, Department of Health may be required on Brookline St., Date Pl., Deaton Dr., Dafter Pl., Dafter Dr., Duval St., Elm St., and Fir St. for separation of water and sewer. Also included associated water services, fire hydrants, curb ramps, traffic control, etc. This project is located in Council District 4, within the Mid-City, Eastern Area.

The work is proposed to be replace-in-place using the open trench construction within City right-of-way.

#### 2. Scope of Work:

- 2.1. The Work and Services required of the Design-Builder include those during design and construction of the Project. The Design-Builder shall provide all management, supervision, labor, services, equipment, tools, supplies, temporary facilities, and any other item of every kind and description required for the complete design and construction of the Project.
- 2.2. The Design-Builder shall be responsible for performing and completing, and for causing all Sub-consultants/Subcontractors to perform and complete the design and construction of the Project as set forth in the Contract Documents.
- 2.3. The Design-Builder shall provide all Work and Services required by the Contract Documents, including those described as "if required," "if directed," "potential," "optional," "may," or similar adjectives and phrases. This work falls under the appropriate proposal items.
- 2.4. The Design-Builder covenants that the Services shall meet the performance expectations of the City as described in this Scope. The Design-Builder shall be responsible for achieving Completion of the Project as set forth in the Project Schedule, as the same may be extended from time to time pursuant to the provisions of the Contract.
- 2.5. The submission of a Proposal shall be conclusive evidence that the Design-Builder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, the local conditions under which the Work is to be performed, and as to the requirements of the Proposal Documents, Plans, and Specifications.
- 2.6. As the Engineer of Work, the Design-Builder shall refer to the City's preliminary design information for the purpose of preparing a set of Plans and Specifications for the construction.

- 2.7. The Scope of Work and Services shall also include but is not limited to the following:
  - 2.7.1. Conducting investigations, as-built research, and additional design survey services including physical and aerial surveys if needed for the completion of design work;
  - 2.7.2. Preparing & completing 30%, 60%, 100%, and Final design drawings. The Design-BUILDER is solely responsible for the preparation and completion of design plans for construction;
  - 2.7.3. Obtaining plan check approvals; and providing engineering services during construction, startup, and testing;
  - 2.7.4. Construction of water mains and appurtenances including all high-lining, cut and plug and cut ins;
  - 2.7.5. Monitoring for potential of any hazardous materials and coordination with local resource agencies;
  - 2.7.6. Value engineering;
  - 2.7.7. Additional geotechnical investigation and potholing;
  - 2.7.8. Performance and implementation of QA/QC,
  - 2.7.9. Traffic control, paving, AC overlay for all streets, storm water permitting and compliance. ;
  - 2.7.10. Coordinating with the City Project and Construction Managers and other utility owners/contractors; Coordinate utility relocations with utility owners; and
  - 2.7.11. Scheduling, community outreach and public relations, and preparation of as-built drawings and mylars.
  - 2.7.12. The Design-BUILDER shall coordinate all design communication through Project Manager.
  - 2.7.13. The design-BUILDER shall be responsible for locating all As-Builts and utility information.
- 2.8. The Design-BUILDER shall use CADD in compliance with the City's "Consultant Standards for Preparation of PS&E."
- 2.9. The Design-BUILDER shall use the Primavera Project Management and Scheduling Software or equal. The Design-BUILDER shall submit and maintain a task-oriented computerized schedule for completing the Work over the life of the Project in accordance with Section 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK."
- 2.10. As required by California Government Code section 830.6, prior to construction, the design (including changes) for the Project and/or any portion thereof shall be approved by the Engineer of Work.

### **3. City Services:**

- 3.1. The City will provide only the services listed in this section. All other services necessary for complete design and construction of the Project shall be provided by Design-BUILDER.

- 3.1.1. Project Management and Administration. The City will respond to Design- Builder's written questions regarding Project definition and scope within 15 Working Days of receipt. See The WHITEBOOK, Part 1, General Provisions (C), subsection 2-6.6.
- 3.1.2. Submittal Review and Approval. The City will review each submittal within 20 Working Days of receipt. See The WHITEBOOK, Part 1, General Provisions (A), subsection 2-5.3.1.
- 3.1.3. Construction inspection, administration, and material testing.
- 3.1.4. Plan checking fees.
- 3.1.5. One-time orientation on the use of the Public Works Department's GIS and other databases that the City makes available to the Design-Builder.
- 3.1.6. Easement Acquisition, including right-of-way drawing.
- 3.1.7. Permit fees (not including Caltrans).

**4. City Provided Information:**

- 4.1. The City will provide the following information to Design- Builder. The City does not guarantee the accuracy of this information. The Design-Builder shall conduct further research as necessary to verify the information.
  - 4.1.1. Access to existing topographic maps, San Diego Geographical Information Source (SanGIS) Maps, and electronic files in the possession of the Right-of- Way Design Division. The Design-Builder's expenses for copying will be reimbursed by City unless the copying was performed using City equipment and supplies.
  - 4.1.2. One time access to the CIP Tracking/SPLASH Database to identify existing and proposed Projects in surrounding areas and limited access, as determined by City, to City's on-line records on, maintenance sites, and recent sewer spills. The Design-Builder shall make arrangements with the Engineer or designee at least 1 week in advance to reserve the computer work station.
  - 4.1.3. Sample set of construction plans for a typical Project. The Design-Builder shall use the sample as minimum guidelines for the format and contents of Plans.
  - 4.1.4. City's QA/QC checklists.
  - 4.1.5. Access to Public Works Department's on-line as-built drawings and available design survey information where available.
  - 4.1.6. Traffic Control development process.

**5. Review of the Design-Builder's Design Submittals:**

- 5.1. The Design-Builder shall allocate 20 Working Days for City to review and comment on each submittal and 2 weeks for the Design-Builder to respond and for final Working Days resolution of comments. To log and communicate the review comments, actions, and resolutions efficiently, the City intends to utilize a MS Access database or MS Excel spreadsheet to manage the design submittal comments for 30%, 60%, 100%, and Final

Designs. The Design-Builder shall review and respond to City's comments in the format provided by City.

**6. Community Input:**

6.1. Community input is important. The Design-Builder shall identify major community issues (e.g. access to the public facilities and businesses located within or near the Project area) and shall obtain and address community input. The Design-Builder shall attend at least 2 community presentation meetings of 2-4 hours each (usually scheduled during the early 30% design and prior to start of construction) and during construction as required by the City. The Design-Builder shall also prepare and receive City approval of hand-outs and displays for the community presentations. The Design-Builder shall prepare and implement a community relations plan as discussed later in Community Relations and Public Outreach Program section of this Scope. The Design-Builder shall also receive the Resident Engineer approval for night and after-hours work.

**7. Photo Log and Videotape:**

7.1. The Design-Builder shall comprehensively photograph and videotape the Project Site before, during, and after construction of the Project. Prior to Acceptance, the Design-Builder shall prepare and submit the following items to City:

7.1.1. a still-photo log including the photographs taken;

7.1.2. one copy of each of the still-log photos bound in a three-ring binder; and

7.1.3. two copies of the Project CD in a form acceptable to City.

7.2. The Design-Builder shall request City's prior written approval for the use of digital photography and submit the relevant specifications for digital submittal with the request.

**8. Coordination:**

8.1. The Design-Builder shall coordinate design and construction requirements with governmental entities and agencies, private utilities, and all other parties either involved in infrastructure improvements or otherwise affected by the design and construction requirements.

**9. Existing Information:**

9.1. The City and the Design-Builder recognize that previous studies, designs and reports such as information provided in the Bridging Documents have developed a preliminary definition of the Project. However, these previous efforts have not resulted in a comprehensive and final Project definition. The Design-Builder shall verify all information provided to it by the City pertaining to the Bridging Documents, conceptual plans, Project Site's description, rights-of-way, easements, surveys, existing utilities, soils, hazardous wastes and geotechnical reports, etc., and shall verify the data and recommendations prior to including them into the Project design. The Design Builder shall perform the engineering tasks necessary to further refine and optimize the Project, utilizing as much previous work as possible,

ultimately leading to authorization-to-proceed for Construction with Final Design.

**10. Requests for Clarifications or Information:**

- 10.1. The Design-Builder shall submit all RFI's to the Project Manager in writing. Oral communications shall not be relied upon unless confirmed in writing. RFI's shall be in a format acceptable to the Project Manager, and, at a minimum, shall contain: the Project name and WBS number; the request date; the desired response date; a unique numeric request identifier; a title; a reference to the pertinent part of the Bridging Documents, the Design-Build Special Provisions, or other specific part of the Contract Documents; CPM activity number affected; the written request; the Design-Builder's proposed solution, if appropriate; attachments, if any; and the name, telephone number, e-mail address, and title of the request initiator.

**11. Substitutions:**

- 11.1. Prior to receipt of the final design, the City will consider written substitution requests from the Design-Builder for substitution of products or manufacturers, and construction methods (if specified). After the City receives the final design, substitution requests will be considered only in the case of unavailability of a product or other conditions beyond control of the Design-Builder. Design-Builder shall use Material Substitution request form included as part of Bridging Documents.
- 11.2. The Design-Builder shall have the full burden of demonstrating that the proposed substitution is equal to the specified manufacturer, product, or construction method. By the act of submitting a substitution request, the Design-Builder warrants that:
- 11.2.1. The Design-Builder has investigated the proposed substitution and has determined that it is equal to or superior in all respects to the specified manufacturer, product, or construction method.
- 11.2.2. The Design-Builder will provide the same or better guarantees or warranties for the proposed substitution as for the specified manufacturer, product, or construction method.
- 11.2.3. The Design-Builder waives all claims for additional costs or extensions of time related to the proposed substitution that subsequently may become apparent.
- 11.3. The City will not accept a proposed substitution if any one of the following applies:
- 11.3.1. Acceptance will require changes in the design concept or a substantial revision of the Contract Documents.
- 11.3.2. Acceptance will delay completion of the Design-Builder's Work or Services or the work or services of other City contractors.



- 11.3.3. The Design-Builder does not specifically identify a substitution that appears on a Shop Drawing and/or does not submit a formal substitution request.
- 11.4. The City will determine in its sole discretion whether the proposed substitute is equal to the specified manufacturer, product, or construction method. If the City determines that a proposed substitute is not equal to that specified, the Design- Builder shall provide the specified manufacturer, product, or construction method at no additional cost to the City or delay to the Project.
- 11.5. The City will consider only one substitution request for each product.
- 11.6. The Design-Builder shall submit a separate approved Shop Drawing for any proposed substitution that is accepted by the City. The City's acceptance of a substitution does not relieve the Design-Builder from the requirements for submission of Shop Drawings.
- 12. Design Criteria and Procedure for Review of Design Materials:**
- 12.1. General - The design criteria presented herein shall apply to the design and new construction of sewer & water main replacement, site preparation, and restoration as outlined in the Bridging Documents. The Project shall be designed and constructed to provide a minimum service life of 50 years. Construction of the Project shall cause minimum interruptions in existing sewer & water services. Changes to the Pre-design Report recommendations e.g., pre-design alignments, paving, and storm drain protection; and construction methods shall be made only if approved by the City.
- 12.2. Design Responsibilities - The Design-Builder shall provide all Services for the Project. The Services shall include preparing the 30%, 60%, 100% and Final Design plans for the Project, including all necessary design and/or Construction Documents. The Services shall also include those required during construction, and Project Completion. The Services shall be performed in accordance with all Applicable Laws and City policies.
- 12.2.1. The Design-Builder shall provide complete design for all elements of the Project (as applicable) such as: civil, physical and aerial surveys geotechnical, environmental and specialty consulting areas. Design-Builder shall evaluate alternative construction approaches to ensure economical designs which optimize constructability yet meet all requirements of this Contract, including all applicable laws and applicable architectural concepts, and conceptual designs.
- 12.2.2. The Design-Builder shall incorporate the requirements of permitting agencies as may become apparent in the course of Project design. The Design-Builder shall apply for and secure all permits and provide all necessary reports, studies, and support required to obtain the permits. Permit and utility fees, if any, will be paid by the City. In addition, the Design-Builder shall research and comply with all Air Pollution Control District and noise abatement requirements, along with any hazardous materials management requirements of NFPA, Cal-OSHA and the City Fire Department. The Design-Builder shall

develop an air pollution control plan, a noise abatement plan, (WPCP) Water Pollution Control Plan and a hazardous materials management plan, if required. If required, the Design-Builder shall incorporate appropriate facilities into the design.

12.2.3. With prior authorization from the Project Manager, the Design-Builder shall provide additional geotechnical investigations and potholing to the extent the Design-Builder determines that they are necessary for Final Design.

**13. Surveying:**

13.1. The Design-Builder understands and agrees that any survey information provided by the City is preliminary in nature and may not have sufficient accuracy or scope to support Final Design.

13.2. The Design-Builder shall perform all additional physical and aerial surveys as needed to prepare the construction plans and as-built drawings in accordance with the City standards.

13.3. Construction survey will be performed by the Design-Builder. See Attachment E Section 2-9.2, Survey Service.

**14. As-built information:**

14.1. The Design-Builder shall obtain and review record drawings and as-built information from available public records, maintenance records, and Average Daily Traffic (ADT) counts, etc. if needed in addition to the information in the Bridging Documents.

**15. Environmental and Permit Support:**

15.1. This Scope is based on studies and reviews performed by City's Development Services Department [DSD] which are included in the Bridging Documents. The Design-Builder shall identify all permits required for the Project as well as all requirements for those permits. All permits shall be acquired by the Design-Builder and the costs thereof paid by City. At the 60%, 100% and Final Design completion levels, the Design-Builder shall submit to City a written list of permits required for the Project. The Design-Builder shall identify all permitting agencies and authorities having jurisdiction. The Design-Builder shall prepare permit applications and submit the applications to the Engineer for review. The Design-Builder shall provide technical services as required by the permitting agencies during permit acquisition. The Design-Builder shall incorporate mitigation provisions and DSD review requirements, including the certified CEQA document into the Construction Documents. The Design-Builder shall identify and estimate quantities of BMP's to comply with WPCP requirements.

**16. Owner/Governmental Approvals:**

16.1. The Design-Builder shall obtain all City and other jurisdictional agency approvals as required to implement the design and construction of the Project. The City received an environmental document for the Project. During the Final Design process, if the Design-Builder modifies the Project

such that a revision of the environmental document is required, the Design-Builder shall be responsible for all work required for implementing a revision, including preparation of revised documentation and coordination with City staff. The Work shall not proceed on the Project until the environmental requirements are met to the satisfaction of the City. There shall be no additional time allowed in the contract for processing and approval of revised permit documents. The cost associated with implementing both the design and construction changes as a result of the Design-Builder modifications shall be the responsibility of the Design-Builder and will not be compensated by the City.

**17. Geotechnical Investigation:**

17.1. The Design-Builder shall review any available geotechnical reports and provide the necessary geotechnical investigations and testing required to design and to construct the Project in accordance with the Contract requirements.

**18. Corrosion Survey Report:**

18.1. If applicable, the Design-Builder shall investigate the Project Site and provide a current corrosion survey report for the water portion of the Project according to City standards and guidelines (refer to the water CIP Guidelines, Book 1, Chapter 9, Corrosion Control).

**19. Potholing:**

19.1. The Design-Builder shall have full responsibility for assessing, reviewing and verifying existing utility information and data. The Design-Builder shall excavate sufficient potholes to verify locations and elevations at utility crossings and existing piping to be removed or replaced in the Project. The Design-Builder shall immediately notify the City of any damage caused to the pipe during potholing activities.

19.2. The Design-Builder shall provide all services related to the excavation and backfilling of potholes. Pothole excavations shall be in compliance with CAL-OSHA and City safety requirements, and any excavations left open shall be covered with steel plates.

19.3. The Design-Builder shall restore and clean-up all work sites.

19.4. All utility excavations shall be tied to the horizontal and vertical control information provided by City's survey for this Project. The Design-Builder shall provide the City with a summary which shall include:

19.4.1. Utility.

19.4.2. Conduit quantity, type, and size.

19.4.3. Depth to top of conduit.

19.4.4. Horizontal coordinates (NAD 83).

19.4.5. Surface elevation (M.S.L).

19.4.6. Top elevation of conduit.

19.5. At the completion of examining each pothole, the Design-Builder shall:

- 19.5.1. Replace the pipe bedding which was removed. Tamp and compact to provide suitable support for the pipe.
- 19.5.2. Backfill and cover the pipe with native soil.
- 19.5.3. For those pothole excavations located in the roadway, trench resurfacing shall comply with SDG-107.
- 19.6. The Design-Builder shall provide construction staging, noise and dust control, and traffic control as required during excavation for potholing to minimize impacts on local neighborhoods.
- 19.7. The Design-Builder shall restore to their in-kind condition, as determined by City, all streets, curbs, gutters, sidewalks, private properties and other improvements damaged as a result of the Design-Builder's activities.
- 19.8. The Design-Builder shall submit potholing information to Project Manager/Project Engineer for review.
- 19.9. The Design-Builder shall not perform any additional potholing unless authorized in writing by the City.

**20. Review of Contract Documents and Field Conditions:**

- 20.1. The Design-Builder shall conduct field investigations, including potholing of underground facilities, take field measurements, and verify field conditions. The Design-Builder shall carefully compare such field conditions and other information known to the Design-Builder with the Contract Documents before commencing Work and/or Services. The Design-Builder is solely responsible for investigation and discovery of all field conditions notwithstanding any information provided by City in the Contract Documents or otherwise. City has made an effort to eliminate errors, omissions, and inconsistencies in the Contract Documents. The Design-Builder, however, shall bring to City's attention for clarification any errors, omissions, or inconsistencies prior to submission of the Design-Builder's Proposal. Otherwise, the Design-Builder shall take responsibility for any costs or delays associated with such error, omission, or inconsistency.

**21. Local Conditions:**

- 21.1. The Design-Builder shall take steps reasonably necessary to ascertain the nature and location of the Work, and investigate and satisfy itself as to the general and local conditions that are applicable to the Work, including but not limited to:
  - 21.1.1. Conditions bearing on transportation, disposal, handling, and storage of materials;
  - 21.1.2. The availability of labor, materials, water, power, and roads;
  - 21.1.3. Weather conditions;
  - 21.1.4. Physical conditions at the Project Site;
  - 21.1.5. The surface conditions of the ground; and
  - 21.1.6. The character of equipment and facilities needed prior to and during the performance of the Work.

**22. Access to the Work:**

22.1. The Design-Builder shall provide the City and utility owners with access to the Project Site and provide coordination and time for utility work to be accomplished at all times.

**23. Supervision:**

23.1. The Design-Builder shall supervise and direct the Work in accordance with accepted standards of professional skill and attention. The Design-Builder shall be solely responsible for and have control over design and construction means, methods, techniques, sequences, and procedures. The Design-Builder shall not be relieved of obligations to perform the Work in accordance with the Contract Documents by tests, inspections, acceptances, or approvals required or performed by persons other than The Design-Builder. The Design-Builder shall employ a competent superintendent and a necessary assistant who shall be present at the Project Site at all times that Work is being performed. The superintendent shall represent the Design-Builder, and communications given to the superintendent shall be as binding as if given to the Design-Builder.

**24. Authorization to Proceed:**

24.1. Following each design review, the Design-Builder shall meet with the Project Manager/Project Engineer to:

24.1.1. Discuss the comments and responses, and to resolve all open issues and disagreements;

24.1.2. Confirm the next level of design development; and

24.1.3. Obtain written authorization to proceed with the next design level; and

24.1.4. Obtain written authorization to proceed with construction.

**25. Design Calculations:**

25.1. The Design-Builder shall include design calculations, catalog cuts, computations, telephone and facsimile records, and other similar documents supporting all elements of the Design-Builder's design with the Design-Builder's final signed and stamped calculations. The Design-Builder shall provide catalog cuts and manufacturer's data included with the final Project calculations for each approved material listed in the specifications or identified on the drawings.

**26. Plan Checks - at major completion levels, Design:**

26.1. The Design-Builder shall submit written estimates of plan checks required to complete the Project. In the written estimates, the Design-Builder shall:

26.1.1. Identify all authorities having jurisdiction, including but not limited to the City Planning Division, Development Services Department, the City Traffic Section of Field Engineering, and other utilities. City will prepare plan check applications and submit the applications to the authorities having jurisdiction. Payment for plan check applications shall be made by City.

26.1.2. Submit hard and electronic copies of written design submittal comments from City and other utilities or agencies, annotated to indicate the Design-Builder's responses, final disposition of comments, and incorporate into the Final Design documents.

**27. Shop Drawings, Material Submittals and Samples.**

- 27.1. The Design-Builder, as the Engineer of Record, shall review and approve Shop Drawings, Material Submittals and Samples prior to procurement.
- 27.2. The Design-Builder shall determine and verify all of the following prior to procurement:
  - 27.2.1. Field measurements, quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto.
  - 27.2.2. Products with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work.
  - 27.2.3. Information relative to the Design-Builder's sole responsibilities in respect of means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
- 27.3. Prior to approving Shop Drawings, Material Submittals or Samples, the Design-Builder shall review and coordinate each Shop Drawing, Material Submittals or Sample with other Shop Drawings, Material Submittals and Samples, and with the requirements of the Work and Contract Documents.
- 27.4. The Design-Builder shall carefully review Shop Drawings, Material Submittals and Samples and shall date, sign, and certify each submittal as being correct and in strict conformance with the Contract Documents. In the case of Shop Drawings, each sheet shall be so dated, signed, and certified. The Engineer will require 3 copies of approved submittals prior to procurement for QA/QC purposes and will not accept any submittals which have not been certified by the Design-Builder to be in compliance with the Contract requirements, and will return any non-certified submittals to the Design-Builder. Any delays caused by the Design-Builder's failure to so certify shall be the total responsibility of the Design-Builder.
- 27.5. With each submittal, the Design-Builder shall give the Engineer separate specific written notice of any variations between the Shop Drawing, Material Submittals or Sample submitted and the requirements of the Contract Documents. Additionally, the Design-Builder shall include a specific notation for City's acceptance of each such variation on each Shop Drawing, Material Submittals and Sample submitted.
- 27.6. City's acceptance of Shop Drawings, Material Submittals and Samples shall be for the sole purpose of determining whether the Shop Drawings, Material Submittals and Samples will, after installation or incorporation into the Work, conform to the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole.

- 27.6.1. City's acceptance shall not extend to means, methods, techniques, sequences, or procedures of construction, except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents.
  - 27.6.2. City's review and acceptance of a separate item as such shall not indicate approval of the assembly in which the item functions.
  - 27.6.3. City's review of Shop Drawings shall not relieve Design-Builder of the entire responsibility for the correctness of details and dimensions. The Design-Builder shall assume all responsibility and risk for any misfits and/or malfunctions due to any errors in the Design-Builder's submittals. Design-Builder shall be responsible for the dimensions and the design of adequate connections and details.
- 27.7. City's acceptance of Shop Drawings, Material Submittals or Samples shall not relieve the Design-Builder from responsibility for variations from the requirements of the Contract Documents, unless:
- 27.7.1. The Design-Builder in writing called attention to each such variation at the time of submission of the Shop Drawing, Material Submittals or Sample; and
  - 27.7.2. City has specifically accepted in writing, either on the Shop Drawing or accompanying the Sample or Material Submittal each such variation.
- 27.8. The Design-Builder shall be solely responsible for any costs arising from the Design-Builder's failure to submit and/or receive City's acceptance of a Shop Drawing, Material Submittal or Sample as required by the Contract Documents or the City-accepted schedule of Shop Drawings and Sample submissions.
- 27.9. Shop Drawing Submittal Procedures:
- 27.9.1. The Design-Builder shall submit 3 copies of each approved Shop Drawing to the Engineer for QA/QC purposes.
  - 27.9.2. The Design-Builder shall use a separate transmittal form for each specific item or class of material or equipment for which a submittal is required. The Design-Builder may use a single transmittal form for multiple items only when the items taken together constitute a manufacturer's "package" or are so functionally related that expediency indicates review of the group or package as a whole. The Design-Builder shall collate a multiple-page submittal into sets, and each set shall be stapled or bound, as appropriate, prior to transmittal to the Engineer.
  - 27.9.3. The Design-Builder shall use a Project-standard transmittal form accepted by the Engineer. The transmittal form shall identify the Design-Builder and include the date of the submittal, the information prescribed by the form, and a unique sequential number in a format approved by the Engineer. If applicable, the Design-Builder shall process transmittal forms to record actions regarding sample installations.

- 27.9.4. For each submittal and using a label and/or a rubber stamp, the Design-Builder shall include the following information in the same or a substantially similar form:

Submittal No.
Contract No.
Project Name:
Name of Design Builder:
Reviewed and Approved for Conformance with the Contract Documents:
Printed Name: _____
By: _____ (Signature)
Reference Drawing Sheet No's:
Reference Spec Section No's:

- 27.9.5. The Engineer will return at least one copy of each submittal with City's written comments to the Design-Builder within 20 Working Days following receipt of the submittal by the Engineer. If the Design-Builder fails to provide a complete and acceptable first re-submittal, as determined by the Engineer, City may deduct from the Contract Price the costs of City review beyond the first re-submittal.
- 27.9.6. Corrections indicated on submittals shall be considered as changes necessary to meet the requirements of the Contract Documents and shall not be taken as the basis for changes to the Contract requirements. City shall not be liable for any costs associated with fabrication or manufacture of an item that occurs prior to City's acceptance of the associated shop drawing submittal.
- 27.9.7. The Design-Builder shall maintain an accurate submittal log. The log shall show the current status of submittals and the Design-Builder shall make the submittal log available for City's review upon request.
- 27.9.8. Submittal Format for Shop Drawings:
1. For Shop Drawings presented on sheets larger than 11 by 17 inches, the Design-Builder shall include on each drawing the drawing title, number, date, and revision numbers and dates.
  2. For Shop Drawings presented on sheets 11 by 17 inches or less, the Design-Builder shall conform to the format and quantity requirements for product data, and present the Shop Drawings as a part of the bound volume for the submittals required by this Section.



3. Except for diagrams and schematic drawings, Design- Builder shall prepare dimensioned drawings to scale. The Design-Builder shall identify materials and products for work shown.
4. The Design-Builder's Shop Drawings shall be not less than 8½ by 11 inches nor more than 30 by 42 inches.
5. The Design-Builder shall submit detailed drawings and descriptions of proposed deviations from details or component arrangement indicated on the Shop Drawings.
6. The Design-Builder shall provide finished drawings for City review indicating proposed installation of Work, and materials and equipment being furnished.
7. City will not accept Shop Drawings that are either:
  - i) Copies of plans; or
  - ii) Materials or equipment identified solely by catalog numbers.
8. To enable City's acceptance, the Design-Builder shall ensure that the data shown on Shop Drawings is complete with respect to dimensions, design criteria, material of construction, and other detail. Incomplete submittals will be rejected.

27.9.9. Submittal Format for Product Data:

1. The Design-Builder shall present product data submittals for each specification section as a complete, bound volume, including a table of contents that lists page and catalog item numbers for product data.
2. The Design-Builder shall clearly indicate each product that is being proposed for use by inserting a stamped arrow, cloud, or other prominent notation that identifies the pertinent specification section and paragraph numbers. City will reject product data submittals that are not clearly marked.
3. If product data satisfying submittal requirements does not exist, the Design-Builder shall create and submit to City the required product data, including a notation that the product data was created specifically for the Project.
4. The Design-Builder shall furnish to City catalog data that describes in detail the products being furnished and enables the Engineer to determine that the products submitted conform to the requirements of the Contract Documents.
5. If more than one style, size, capacity, etc. of a product appears on a sheet, the Design-Builder shall clearly indicate exactly which product type is being submitted for approval. City will reject any submittal that fails to conform with this requirement

6. The Design-Builder shall ensure that the catalog data identifies the manufacturer of the product.
- 27.9.10. Submittal Format for Samples: The Design-Builder shall label or tag each sample, identifying the specification Section number, manufacturer's name and address, brand name, product identification number, and intended use in the Work.
- 27.9.11. If The Design-Builder receives the prior written approval of the Engineer, the Design-Builder may submit Shop Drawings and Samples during the design process beginning at the 60 percent design level. The Design-Builder shall request such early submittal by submitting a RFI. The Design-Builder shall conform to all other requirements and procedures regarding Shop Drawings and Samples.

**28. Design Development:**

- 28.1. The Design-Builder shall design the Project in compliance with all applicable laws, City and other local, state, and federal standards, and applicable industry standards and codes, including but not limited to those specifically set forth in the Contract Documents, the Municipal Sewer Approved Materials List, City noise and air pollution emissions regulations, applicable hazardous material handling and disposal regulations, the City's policies, and all other Reference Specifications approved by City at the time of Award.
- 28.2. The Design-Builder shall prepare and submit design packages for review and acceptance by City in accordance with City's guidelines and the Project Schedule. The Design-Builder's use of City's guidelines shall not reduce, change, mitigate, or absolve the Design-Builder's responsibility for the Project design in any way. The Design-Builder's acts of stamping and signing the drawings, specifications, calculations, or other final design documents shall mean that the Design-Builder understands, accepts, and approves all measures contained in or implied by City's guidelines.
- 28.3. The Design-Builder shall use the Bridging Documents as the starting point for Project design. The Final Design shall be based on the concepts in these documents. The Design-Builder shall review the Bridging Documents and verify the data and recommendations (i.e., proposed alignments and conceptual plans) prior to including them in the Project design. The Design-Builder shall perform the engineering tasks necessary to refine and optimize the Project, including but not limited to reevaluation and necessary modification of questionable/pending proposed alignments contained in the Bridging Documents.
- 28.4. The Design-Builder shall submit the Final Design documents to the Engineer. In addition to the deliverables specified in subsection 39.7 the Final Design documents shall also include but not be limited to:
  - 28.4.1. One complete set of full sized (24-inch x 36-inch) original mylar final drawing plots, each stamped and wet signed by qualified responsible engineers registered in the state of California. Applicable portions of the drawing title blocks shall also be signed by the Design-Builder.

- 28.4.2. Two complete electronic file sets of all final drawings on CD-Rewritable (RW) recordable disks in Bentley MicroStation V8 format.
- 28.4.3. One, 8½-inch by 11-inch, final specifications, including all charts, graphs, tables, data sheets, and similar inserts required for a complete and approved copy suitable for Xerox reproduction.
- 28.4.4. Two complete electronic file sets of the final specifications in MS Word processing software format.
- 28.4.5. One complete set of engineering calculations and quantity take-offs, including hydraulic calculations, each wet stamped and signed by qualified responsible engineers registered in the state of California. All elements of the Final Design presented shall be supported by calculations. All computer programs used in development of Project calculations shall be Windows compatible. Catalog cuts and manufacturer's data shall be provided for each approved material listed in the specifications or identified on the drawings, and shall be included with the final Project calculations.
- 28.4.6. A written list of required Shop Drawings (construction submittals) and Samples and an electronic file of the list on a recordable CD-RW in the latest version of MS Word processing software.
- 28.4.7. Other reports and documents as may be required by City.
- 28.5. Procedures and time allowances for City's review of the design submittal, response by the Design-Builder to City's comments, and obtaining City's authorization to proceed to the next level of design shall be as stated in this Scope and the Project Schedule.
- 28.6. In coordination with Traffic Section of Construction Management and Field Services, the Design-Builder shall develop a traffic control plan and local access management plan that minimizes environmental and traffic impacts, including noise impacts, to residences, businesses, and institutions. The final traffic control plan must be approved by City's Traffic Section of Field Engineering Division. The Design-Builder shall maintain an appropriate level of access and site security at all Project facilities to avoid significant impacts to the public.
  - 28.6.1. After the alignment of a Project is finalized, the Design-Builder shall meet with the Traffic Plan Check Supervisor to determine which sections of the roadway, if any, will require formal traffic control plans and which sections can be adequately addressed using shop drawings developed by the Design-Builder prior to construction.
  - 28.6.2. The Design-Builder shall prepare a preliminary traffic control approach for City's review and approval prior to preparation of traffic control plans.
  - 28.6.3. The Design-Builder shall complete and update a Traffic Control Plan Information Sheet available from the City.

- 28.6.4. The Design-Builder shall include Typical Cross Sections on traffic control plans identifying the construction work areas if required by Traffic Engineering.
  - 28.6.5. The Design-Builder shall address and include in the traffic control plans and specifications coordination of traffic control among adjacent Projects during construction.
  - 28.6.6. The Design-Builder shall obtain approval for traffic control plans.
  - 28.7. The Design-Builder shall provide designs for the relocation of public or private utilities which must be constructed or relocated as a result of the Project.
  - 28.8. The Design-Builder's design shall comply with the ADA and Title 24. The Design-Builder shall complete and submit an ADA Compliance Review Checklist available from the City.
  - 28.9. The Design-Builder shall prepare and incorporate into the specifications, a Water Pollution Control Plan (WPCP) to be implemented during construction. The WPCP shall comply with the California Regional Water Quality Control Board Statewide General Construction Storm Water permit current requirements.
  - 28.10. The Design-Builder shall prepare a construction quantity takeoff at 60%, 100% and Final submittals.
  - 28.11. The Design-Builder shall revise plans and specifications to incorporate comments received from the City, City-wide plan check and from the permitting agencies.
- 29. Design Submittals:**
- 29.1. General: The Design-Builder shall ensure that all design submittals conform to the requirements described in this Section. City will reject any submittal that fails to meet the requirements described in this Scope and elsewhere in the Contract. City shall not grant a schedule adjustment for the Design-Builder's failure to meet these requirements. In each submittal the Design-Builder shall identify any variances from the Contract Documents. City may reject any design submittal for the Design-Builder's failure to identify variances, regardless of the timing of the discovery of the failure. The Design-Builder shall respond in writing to all City comments on each design submittal within 10 Working Days of the date of transmittal of the comments. The Design-Builder shall submit a completed QA/QC checklist at each design submittal.
  - 29.2. 30 percent design Submittal - The 30% design submittal shall include but not be limited to:
    - 29.2.1. Designs for construction of new facilities and for refurbishment and demolition of existing facilities.
    - 29.2.2. Incorporation of the information contained in the Bridging Documents.
    - 29.2.3. Reviewed preliminary calculations and hydraulic calculations.
    - 29.2.4. Drawings that shall include at a minimum:

1. Title sheet with general notes, vicinity map, key map, and legend.
  2. Preliminary list of construction drawings on cover sheet.
  3. Locations of existing public and private utilities within the Project area on plan and profile.
  4. Preliminary site plan including construction staging areas (if applicable)
  5. Other drawings, as applicable to show information from pre-design maps.
  6. List of special conditions, if any.
  7. Drawings shall show all existing topographic and utility information and the horizontal alignment of proposed pipeline improvements with sizes.
  8. Traffic control concept plans (traffic control approach) if applicable.
  9. Specification table of contents prepared in The GREENBOOK format.
- 29.3. 60 percent design Submittal – The 60 percent design submittal shall include but not be limited to:
- 29.3.1. Designs for construction of new facilities and for refurbishment and demolition of existing facilities.
  - 29.3.2. Updated and incorporated information and comments from the 30 percent design submittal.
  - 29.3.3. Completed and reviewed calculations, hydraulic calculations, calculations for horizontal and vertical control for pipeline alignment, and backfill and bedding design.
  - 29.3.4. Location of construction staging areas (if applicable).
  - 29.3.5. A written list of permits required for the Project, identifying all permitting agencies and authorities having jurisdiction.
- 29.4. Drawings that shall include at a minimum:
- 29.4.1. Updated plan and profile sheets for the sewer and water improvements, and construction details and notes.
  - 29.4.2. Identification of both special and standard details.
  - 29.4.3. A complete list of construction drawings on cover sheet.
  - 29.4.4. Definition of the construction method to be used for pipe installation.
  - 29.4.5. A complete site plan including construction lay down areas, site grading, and erosion control, if applicable.
  - 29.4.6. Other drawings such as paving, curb ramps, abandonment plans and traffic control plans as applicable.
  - 29.4.7. Erosion control plan, storm water pollution prevention BMP's, landscaping plan, and habitat restoration, success criteria, long term

maintenance, and conformance to the Multiple Habitat Planning Area land use adjacency guidelines as applicable.

29.4.8. List of special conditions, if any.

29.4.9. Quantity take-off per plan sheet.

29.4.10. A complete draft of specifications in The GREENBOOK format including:

1. Table of contents.
2. The Design-Build Special Provisions.

29.5. Pre-Final-100 percent design Submittal – The 100 percent design submittal shall include but not be limited to:

29.5.1. Designs for construction of new facilities, and refurbishment and demolition of existing facilities.

29.5.2. Updated and incorporated information and comments from the 100 percent design submittal.

29.5.3. Completed, reviewed, and bound calculations and hydraulic calculations.

29.5.4. Updates to geotechnical report, if any.

29.5.5. Permit applications as necessary.

29.5.6. Completed specifications in Green-book format.

29.5.7. Quantity take-off.

29.5.8. Drawings in all disciplines, including final and traffic control Plans approved by City, if any.

29.5.9. A current written list of permits including environmental permits and revised MND required for the Project, identifying all permitting agencies and authorities having jurisdiction, and status and copies of permit approvals.

29.6. Pre-Final Design Submittal – The Design-Builder shall submit a pre-Final Design to the Engineer, which shall include but not be limited to:

29.6.1. Updated and incorporated information and comments from the 100 percent design Submittal.

29.6.2. Comments from permitting agencies, including a log of comments and responses.

29.6.3. A current written list of permits including environmental permits and revised MND required for the Project, identifying all permitting agencies and authorities having jurisdiction, and status and copies of permit approvals.

29.6.4. City will review the Pre-Final Design and return comments to the Design-Builder. The Design-Builder shall, within 20 Working Days of receipt of City's comments, submit a Final (100%) Design to the Engineer, which shall include but not be limited to:

1. Updated and incorporated comments from the Pre-Final Design Submittal.
  2. Final drawings and calculations must be stamped and signed by a professional engineer. Also, the City requires the original wet-signed mylars be held in City files as legal records of the Project.
- 29.6.5. Final design drawings for construction of new facilities, and refurbishment and demolition of existing facilities.
- 29.7. Design Submittal Deliverables:
- 29.7.1. The Design City Engineer in the form of 6 copies of the specifications, 6 sets of half sized (11-inch x 17-inch) drawing prints, and 14 sets of full sized (24-inch x 36-inch) drawing prints.
1. Drawing format shall conform to the City of San Diego CADD Standards and City provided "T" files. The standard scales are 1"=40' for plans and 1"=4' for profiles.
  2. Drawings shall show all existing topographic and utility information and the horizontal alignment of proposed pipeline improvements.
- 29.7.2. The Design-Builder shall deliver the pre-Final Design to the Engineer in the form of 6 copies of the specifications and 14 sets of half sized (11-inch x 17-inch) drawing prints.
- 29.7.3. The Design-Builder shall submit all drawings in Bentley MicroStation per City's CADD Standards. The Design-Builder shall attend a coordination/orientation meeting with City's E&CP CADD specialist to review and discuss City's CADD standards. The Engineer will arrange for the meeting upon The Design-Builder's request. The Design-Builder shall also submit the Electronic In-Roads ALG file. The Design-Builder shall number proposed alignment points on plan views using the automated process through In-Roads Software. The Design-Builder shall also generate the Horizontal Alignment Coordinate Index report through In-Roads and place it on the last sheet of the drawings.
- 29.7.4. The Design-Builder shall submit the Final Design documents to the Engineer, which shall include but not be limited to:
1. One complete set of full sized (24-inch x 36-inch) original mylar final drawing plots, each stamped and wet signed by The Design-Builder's qualified responsible engineers registered in the state of California. Applicable portions of the drawing title blocks shall also be signed by The Design-Builder.
  2. Six, 8½-inch by 11-inch copies of the final specifications, including all charts, graphs, tables, data sheets, and similar inserts required for a complete and approved copy suitable for Xerox reproduction.
  3. Two complete electronic file sets of the final specifications.

4. Two complete electronic file sets of the final drawings on CD-RW.
5. Six complete and approved 8½-inch by 11-inch copies of the final construction cost estimate.
6. Two complete electronic files of the final construction quantity takeoffs and cost estimate.
7. Six complete sets of engineering calculations, including hydraulic, mechanical, electrical, and structural calculations, each wet stamped and signed by the Design-Builder's qualified responsible engineers registered in the state of California. The Design-Builder shall support all elements of the design presented by calculations the Design-Builder shall use only Windows compatible computer programs for Project calculations.
8. Other documents as required elsewhere in this Scope or required by the Engineer.
9. The Design-Builder shall use the following table as a minimum guide for preparation of the design drawings:

<b>30% Submittal</b>	
<b>Title Block:</b>	Drawing Number Title WBS Number
<b>General:</b>	North Arrow Scale
<b>Existing Plan:</b>	Ownership Lines Water Services and appurtenances Sewer Laterals and appurtenances Electric Lines, Boxes and Services Telco Lines, Boxes and Services Street Center Line Fire Services Lot Lines Right of Way Lines Street Names Stationing Trolley Tracks



<b>30% Submittal</b>	
<b>Existing Profile:</b>	Existing Water Mains Horizontal and Vertical Scale Elevation Scales Existing Grades / Existing Pavement Existing Utility Crossings with Elevations Street Names
<b>60% Submittal</b>	
<b>Title Block:</b>	Street Names and Limits
<b>General:</b>	Cover Sheet – Limits of Work
<b>Proposed Plan:</b>	Dimensioning Addresses Stationing Plugs and Dead End Details Pipe Sizes and Lengths Sewer Laterals Manholes
<b>Proposed Profile:</b>	Stationing Pipe Size and Lengths
<b>Sewer:</b>	Manhole with Inverts
<b>Final Submittal (100%)</b>	
<b>Title Block:</b>	Lambert Coordinates Designer's / Drafter's Name Number of Street
<b>General:</b>	Street Name (RT Margin) Proposed Pipe Data Table Proposed Coordinate Table Construction Notes Details Reference Data Retirement Data
<b>Proposed Plan:</b>	Special Plan Notes Subdivision Name Subdivision Map Number Block Numbers Street Closures Caution Call-outs

	Split-Property
<b>Final Submittal (100%)</b>	
<b>Proposed Profile:</b>	Special Profile Notes Traffic Control Plans
<b>Additional Sheets</b>	Applicable to 30%, 60% and Final (100%) Resurfacing Alignment Sheet BMP, Storm Drain Inlet Protection Plan Curb Ramp Sheet(s) Abandonment Plan Miscellaneous Details

- 29.8. The Design-Builder shall use MS Word format for all word processing.
- 29.9. The Design-Builder shall use MS Excel for all spreadsheets.

**30. Community Relations and Public Outreach Program:**

- 30.1. The Design-Builder shall provide the necessary public information and outreach program for the Project. This program shall have a Public Information Officer (PIO) who will serve as the community liaison. Refer to The WHITEBOOK, section 7-16. The PIO shall work closely with the Communication Department’s PIO section in the implementation of the public information and outreach program standards.
- 30.2. The Design-Builder shall identify, within 10 Working Days of NTP, a specific professional designated to be a full-time public information liaison for the design build team, who shall work cooperatively with, and provide assistance to, the City’s team. The Design-Builder shall be available to respond to questions from the community as needed for the duration of the Project, and shall participate in related public meetings. The Design-Builder shall prepare and provide presentation materials to explain the Project at community meetings and presentations.
- 30.3. The Design-Builder shall prepare a complete Community Relations Plan. The Community Relations Plan shall be developed in coordination with the City and presented to the City for review within 30 Working Days of Notice to Proceed. If modifications are required, the City will notify and advise the Design-Builder.
- 30.4. The Key stakeholders are identified as the public and the City of San Diego, San Diego Unified School District, San Diego Metro Transit System, and the Mid-City and Eastern Area Community Groups. During construction, coordination will be required with the Webster Elementary School. The Design-Builder shall coordinate all activity with the proper school representative.

- 30.5. The Community Relations Plan shall include the following scope and services but not limited to:
- 30.5.1. A method for conveying Project information to the public. Provide residents with update Project information and background information about the Project. Information shall be updated Bi-Weekly
  - 30.5.2. A method for construction notification in advance of the start of work.
  - 30.5.3. Attendance and presentation of Project update before and during construction of Projects at community and stakeholder Meetings. Prepare presentation materials in coordination with the City.
  - 30.5.4. Develop written list of follow-up information requested from the community.
  - 30.5.5. Respond to telephone calls and e-mails. Standard telephone service and e-mail responses. Record calls and e-mails on electronic tracking form.
  - 30.5.6. E-mail record of call information to The Design-Builder/Project Team. E-mail updates to stakeholders, Community Groups, City Council and other interested parties.
  - 30.5.7. Create and maintain online Project webpage and newsletters.
  - 30.5.8. Write, edit, update and/or produce brochures, pamphlets and news releases.
  - 30.5.9. Attend progress meeting and provide status of community relations activities.
  - 30.5.10. The plan shall also include a listing of businesses, schools, and major facilities along the alignment which are expected to be impacted by the construction, and proposed mitigation measures to lessen construction impacts.
  - 30.5.11. The plan shall specifically identify the lines of communication within the Design-Builder Team, between the Design-Builder Team and the City and between the Design Builder's public information liaison and the City. The Design-Builder shall be responsible for ensuring that the information to be provided to the public is consistent, updated and accurate.

**31. Quality Assurance and Control:**

- 31.1. The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control. The minimum acceptable quality assurance and quality control plan is described in the Quality Assurance/Quality Control Plan Guidelines, attached hereto and incorporated herein as Attachment A, section 32 – Quality Assurance / Quality Control Guidelines.
- 31.1.1. Design QA/QC – The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control [QA/QC] during design.

- 31.1.2. Checklists – As part of the QA/QC Plan, The Design-Builder shall use the City-provided checklists and attach the checklists to the plans and specifications.
- 31.1.3. Final Design – The Design-Builder shall submit QA/QC records for the final specifications and drawings to verify coordination within the engineering discipline, between engineering disciplines, between the final specifications and drawings, and to verify consistency with existing City Projects.
- 31.1.4. Construction QA/QC – The Design-Builder shall be completely and solely responsible for Project QA/QC during construction.

**32. Quality Assurance / Quality Control Guidelines:**

**32.1. General**

- 32.1.1. The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control, both during design and during construction. This Attachment outlines the minimum requirements for an acceptable quality assurance and quality control plan [QA/QC Plan]. The cost for the Design-Builder's QA/QC Plan and its implementation shall be included in the Design-Builder's Proposal.
- 32.1.2. The Design-Builder shall assign a QA/QC supervisor to ensure that all Work is performed in accordance with the Contract Documents, plans, specifications, manufacturers' instructions, Applicable Laws, and to acceptable industry standards.
- 32.1.3. The Engineer will monitor the Design-Builder's Work and Services and provide independent reviews as set forth in the Contract Documents. If City's review or inspection uncovers Work or Services that do not conform to the Contract Documents or Applicable laws, City may reject that Work and/or Services and The Design-Builder shall replace or correct any deficiency at no additional cost to City.
- 32.1.4. The concept of quality has evolved from conformance with specifications to meeting Owner requirements. The Design-Builder quality assurance and control has advanced from checking deliverables to multiple reviews, evaluations, inspections, and tests, concurrent with the Public Works Department reviews, oversight inspections, witnessing of tests, and similar quality assurance activities. Ultimately, the Design-Builder shall provide a facility that meets the requirements described in the Contract Documents.
- 32.1.5. The Design-Builder shall respond to any QA/QC review comments by ensuring that the Design-Builder's staff considers the comments and notes the actions to be taken. The Design-Builder shall submit copies of the responses to the Engineer to indicate that the QA/QC review is complete and that the reviewers concur with the response.
- 32.1.6. If The Design-Builder detects any impending deviations from the Scope, Project Schedule, or Project budget, the Design-Builder shall take appropriate action to correct such deviations or to obtain written approval from the Engineer if deviations cannot be avoided.

32.1.7. The Design-Builder shall implement its QA/QC Plan that was submitted to City with The Design-Builder's RFP together with any revisions required by City, all of which are incorporated herein by this reference as though fully set forth herein.

32.2. QA/QC During Design

32.2.1. This Section describes the mandatory QA/QC Plan philosophies and procedures that the Design-Builder shall follow during design of the Project.

32.2.2. The Design-Builder is the engineer of record. City's review of Design-Builder's approved submittals is for the sole purpose of determining whether the submittals conform to the requirements of the Contract and to the Bridging Documents.

32.2.3. The Design-Builder shall include in its Proposal all costs necessary to meet this requirement.

32.2.4. The following quality objectives apply to the Project design:

1. The Design-Builder shall design the Project facilities to meet the scope and objectives set forth in the Bridging Documents, which describe the Project facilities in moderate detail (layout, functions, etc.), thereby establishing the design requirements. The Design-Builder shall design the Project facilities to conform to these requirements except as modified by changes approved by City during design.
2. The Design-Builder shall design the Project facilities to conform to the requirements of the Contract Documents.
3. The Design-Builder shall prepare the Construction Documents to the standards of best engineering practice for clarity, uniformity, accuracy, and completeness.
4. The Design-Builder shall emphasize quality in the design and construction of the Project.

32.3. QA/QC Plan:

32.3.1. Responsibilities: The Design-Builder shall ensure that all members of the Design-Builder's Project team (i.e., preparer, reviewer, checker, and approver) understand their responsibility for quality design.

32.3.2. Design QA/QC Plan: The Design-Builder shall ensure that the design component of its QA/QC Plan includes a specific comprehensive approach to Project QA/QC Plan activities and requires documentation of the actual QA/QC Plan effort and related activities.

32.3.3. Design Review: The Design-Builder shall address all plan check comments received from the City and implement its QA/QC plan prior to re-submittals to the City for review. The Design-Builder shall submit documentation of the QA/QC efforts and related activities as discussed in Section 32.3.8 Review and Comment Form, below.

32.3.4. Implementation: The Design-Builder shall be solely responsible for quality reviews and approval of its design work, and shall ensure that all design work is thoroughly checked, reviewed, and approved by qualified, experienced, knowledgeable personnel who were not involved in the original design work. The Design-Builder shall provide the following types of QA/QC design reviews:

32.3.5. Calculations:

- 1) The Design-Builder shall ensure that calculation sheets are signed and dated by the personnel preparing, checking, reviewing, and approving the calculations. The Design-Builder shall index all original calculation sheets in file folders maintained in a single location so that all original calculations for the entire Project can be readily found. At the time the Final Design is accepted by City, The Design-Builder shall submit to the Engineer a legible copy of all calculations, organized in an easy to use indexed loose-leaf binder or in clearly identified file folders.
- 2) The Design-Builder shall clearly identify any revisions to the calculations. The Design-Builder shall ensure that all revised calculations are checked, signed and cross-referenced to the original calculations.

32.3.6. The Design-Builder's Interdisciplinary Progress Reviews: The Design-Builder shall ensure that interdisciplinary progress reviews are held at the 30%, 60%, 100%, Final Design phases and as specified in this RFP, and that the reviews include all completed calculations, drawings, and specifications. The level of detail expected for each discipline at each completion level is defined in this RFP. The Design-Builder shall ensure that all comments receive an agreed upon response and are recorded on The Design-Builder's Review and Comment Form (described in section 32.3.8 below). Design problems may arise from inconsistencies between disciplines. The Design-Builder shall assign one or more qualified engineers to perform detailed interdisciplinary reviews to ensure consistency between disciplines, and between drawings and the specifications.

32.3.7. The Design-Builder's Final Review: The Design-Builder shall conduct the final QA/QC review after all 100% review comments have been incorporated and before printing of the Final Design submittal begins. The Design-Builder's final QA/QC review shall confirm that all previous review comments have been incorporated.

32.3.8. Review and Comment Form: The Design-Builder shall establish and maintain Review and Comment Forms which shall contain the following information:

1. The name of the Project;
2. City's contract number;
3. The type of review being conducted;

4. The name/title of the document being reviewed;
5. Identification of the page, paragraph, or drawing being reviewed;
6. The reviewer's comments;
7. The designer's response to the reviewer's comments;
8. The agreed upon resolution with respect to the comments and response;
9. The reviewer's signature and date of review;
10. The designer's signature and date of response; and
11. The signature of the Design-Builder's Project manager and date of review.

32.3.9. The Design-Builder shall ensure that each reviewer's comments are constructive and professional in tone, and that the forms are complete and appropriately filed.

#### 32.4. QA/QC During Construction

32.4.1. The Design-Builder shall ensure that all Work meets the quality required by the Contract Documents and shall perform the QA/QC efforts necessary to ensure those requirements are met. City's inspection of any Work will not relieve the Design-Builder of the primary responsibility for quality assurance and quality control.

32.4.2. The Design-Builder shall take the following measures to ensure that the Work is completed in accordance with the Contract Documents:

1. Certification by the designer that the submittals, materials, equipment, and Work all conform to the accepted design.
2. Certification by the vendors and suppliers that the products supplied conform to the Contract Documents, where applicable.
3. Photos and videos of the Work certified by the designer.
4. Any other measure designed to ensure that the Work is completed in accordance with the Contract Documents.

32.4.3. Specific QA/QC requirements for the Work are set forth throughout the Contract Documents. The requirements of this Section are primarily related to performance of the Work beyond the furnishing of manufactured products the Design-Builder agrees that the term "Quality Control" as used herein includes inspection, sampling and testing, and associated requirements.

32.4.4. Factory Inspections and Tests:

1. The Design-Builder agrees that all products, materials, and equipment, shall be subject to inspections, tests, and witness tests by City at the place of manufacture or fabrication.
2. The Design-Builder agrees that City may, at its option, enter into separate contracts with consultants or others to conduct inspections, tests, and witness tests on behalf of City.
3. The Design-Builder agrees that the presence of City, its employees, agents, and/or representatives at inspections, tests, and/or witness tests shall not relieve the Design-Builder of the sole responsibility for providing products, materials, and equipment that comply with all requirements of the Contract Documents. The Design-Builder agrees that compliance is the responsibility of the Design-Builder and shall not be avoided by any act or omission on the part of City or its employees, agents, and/or representatives.
4. The Design-Builder shall provide City with 10 Working Days advance notice of any testing at the place of manufacture or fabrication. At City's option, City, its employees, agents, and/or representatives may conduct inspections and tests at the manufacturing place any time without advance notice to the Design-Builder.

#### 32.4.5. Sampling and Testing:

1. Unless specifically provided otherwise in the Contract Documents, the Design-Builder shall conduct all sampling and testing in accordance with the methods prescribed in the current standards of the ASTM, as applicable to the class and nature of the material, product, or equipment being considered. However, City may accept any other generally-accepted system of sampling and testing that will ensure that the quality of the material, product, or equipment complies with the requirements of the Contract Documents. The Design-Builder shall obtain a Change Order from the Engineer prior to using any other generally-accepted system of sampling and testing.
2. Any waiver by City of any specific testing or other QA/QC Plan measures shall not be binding on City except when formalized by a fully executed Change Order, regardless of whether the waiver is accompanied by a guarantee of substantial performance as a relief from the specified testing or other QA/QC requirements as originally specified, and of whether the guarantee is accompanied by a performance bond to assure execution of any necessary corrective or remedial work.
3. The City may inspect and make independent investigations and tests of the Work. The Design-Builder agrees that if any portion of the Work fails to meet any of the requirements of the Contract Documents, City may require the Design-Builder



to remove, correct, or reconstruct the Work in accordance with the Contract Documents.

32.4.6. Inspection and Testing Laboratory Service:

1. The City may require that Work located in the City right-of-way be tested by the City's testing laboratory. The Design-Builder shall coordinate with the Engineer to cause such tests to be performed.
2. Inspections, testing, and other services that are to be performed by the City, whether specified in the Contract Documents or required by the Engineer, will be performed by City's testing laboratory. The cost of these services will be paid for by City.
3. City's testing laboratory will submit reports in duplicate to the Engineer. The reports will document observations, results of tests, and compliance or non-compliance with the Contract Documents.
4. The Design-Builder shall cooperate with the Engineer and City's Testing Laboratory by furnishing samples of materials, concrete design mix, equipment, tools, and storage, and by providing other assistance as requested by City.
5. The Design-Builder shall notify the Engineer 48 hours prior to commencement of Work requiring inspection and laboratory testing services.
6. The Engineer will direct that any retesting required because of non-conformance to the Contract Documents be performed by the laboratory that performed the original test. Design-Builder shall bear all costs from any such retesting at no additional cost to City.
7. The Design-Builder shall be responsible for all tests required by the specifications or referenced codes and standards, unless specifically noted otherwise in the Contract Documents.

32.4.7. Special Inspection:

1. The Design-Builder shall provide all special inspections required by the California Building Code as currently adopted by City, including all inspections performed off the Project Site. The Design-Builder shall pay the cost of such inspections, and shall include the cost in DB's Proposal.

32.4.8. Installation:

1. Inspection: The Design-Builder shall inspect materials and/or equipment upon their arrival at the Project Site and immediately prior to installation. The Design-Builder shall reject damaged and defective materials and/or equipment. The Design-Builder's inspection shall include:

- i) A review of the Contract requirements;
  - ii) Verification that all materials and/or equipment have been tested, submitted, and approved;
  - iii) Examination of the Work area to ascertain that all preliminary Work has been completed;
  - iv) A physical examination of materials and/or equipment to ensure that they conform to the Design-Builder approved and City-accepted Shop Drawings or other submittal data;
  - v) Instruction as necessary to ensure that Design-Builder's workers understand the requirements of the Contract as they pertain to the materials and/or equipment;
  - vi) An examination of the quality of workmanship; and
  - vii) A review of control testing for compliance with the Contract requirements.
2. Measurements: The Design-Builder shall verify measurements and dimensions of the Work as an integral step of starting each installation. The Design-Builder shall be solely responsible for proper fit up and connection of components.
  3. Special Procedures: The Design-Builder shall provide methods and facilities to ensure conformance with requirements for special process specifications such as nondestructive testing of materials. The Design-Builder shall maintain certifications for personnel, procedures, and equipment as necessary to meet the requirements of the Contract Documents and all Applicable laws.
  4. Manufacturer's Instructions: The Design-Builder shall comply with applicable manufacturer's instructions and recommendations for installation, if those instructions and recommendations are more explicit and/or more stringent than the requirements of the Contract Documents.
  5. Storage and care: If not immediately installed, the Design-Builder shall store and care for all materials and/or equipment delivered to the Project Site according to the manufacturer's recommendations.

#### 32.4.9. Manufacturer's Field Installation Services and Reports:

1. When required by the specifications, the Design-Builder shall cause material or product suppliers or manufacturers to provide qualified personnel to:
  - a) Observe and evaluate:
    - (i) Project Site conditions;
    - (ii) Conditions of surfaces and installation;
    - (iii) Quality of workmanship;
    - (iv) Start-up of equipment; and
    - (v) Testing, adjusting, and balancing of equipment.
  - b) Provide instructions when necessary.
2. The Design-Builder shall report in writing to the Engineer any observations and Project Site decisions or instructions given to the Design-Builder by a material or product supplier or manufacturer's personnel that are supplemental or contrary to the written instructions of the material or product supplier or manufacturer.
3. Within 10 Working Days of each field visit, The Design-Builder shall submit in duplicate to the Engineer for review and acceptance final reports from a material or product supplier or manufacturer's personnel. If the duration of the field visit is greater than 1 week, the Design-Builder shall submit weekly reports. Each final report shall certify that equipment or system has been satisfactorily installed and is functioning correctly.

32.4.10. Sample City QA/QC Checklists:

1. Sample City Checklists are available for review and use from the Engineer.

**33. Noise Abatement and Control:**

- 33.1. The Design-Builder shall comply with San Diego Municipal Code, Noise Abatement and Control (Sections 59.5.04.01, Sound Level Limits, and 59.5.04.04, Construction Noise), and the County of San Diego Code of Regulatory Ordinances, Noise Abatement and Control. In the event of conflict, the most stringent requirement shall apply.
- 33.2. Noise levels generated by construction activity shall not exceed an average of 75 decibels at the residential property line between the hours of 8:30 a.m. to 3:30 p.m. each Working Day. The Design-Builder shall obtain a Noise Permit to conduct work activities taking place before 7:00 AM or after 7:00 PM, each Working Day, or any time on days other than Working Days.

- 33.3. If the Design-Builder desires to conduct Work activities during times when a Noise Permit is required, the Design-Builder shall obtain prior written authorization from the Engineer not less than 48 hours in advance, and shall apply for, obtain, and pay for the Noise Permit at no additional cost to City.

**34. Project Meetings:**

- 34.1. Progress Meetings – Design Phase - The Design-Builder shall schedule and hold regular progress meetings at least monthly and at other times as requested by the Project Manager/Project Engineer. Prior to a progress meeting, the Design-Builder shall submit its progress meeting format to the Project Manager/Project Engineer for review and acceptance. The Design-Builder shall also submit to the Project Manager/Project Engineer for review and acceptance:

- i) A meeting agenda prior to each meeting; and
- ii) Minutes of each meeting prior to the next meeting.

The Design-Builder shall ensure that its key personnel attend the progress meetings.

- 34.2. Progress Meetings – Construction Phase - The Design-Builder shall schedule and hold regular weekly progress meetings and at other times as requested by the Engineer. The Design-Builder shall report in writing to the Engineer the previous week's progress and the plans for the upcoming three weeks. Twenty-four hours prior to each progress meeting, Design-Builder shall provide to the Engineer a two-week window (look-ahead) schedule showing activities from the accepted Project Schedule that are to take place during this period, activities started but not yet completed, and activities which have begun out of sequence. Prior to a progress meeting, the Design-Builder shall submit its progress meeting format to the Engineer for review and acceptance. The Design-Builder shall also submit to the Engineer for review and acceptance:

- i) A meeting agenda prior to each meeting; and
- ii) Minutes of each meeting prior to the next meeting.

The Design-Builder shall ensure that its key personnel attend the progress meetings.

- 34.3. Public Meetings - During the course of the Project, a minimum of 2 of the Design-Builder's key personnel and the Engineer shall attend community meetings as part of the Design-Builder's community outreach program. Typically, these meetings are scheduled for two to four hours on weekday evenings. At a minimum, 1 meeting will be scheduled at 30 percent design review and the other just prior to construction. Actual dates and times will be determined by City.

- 34.4. Other Meetings - From time to time during the Project, the Engineer may direct the Design-Builder to attend other meetings. These may include but are not limited to meetings with environmental or regulatory agencies, meetings with Water Operations, meetings with utility companies, and meetings with other City divisions or departments.

**35. Red-lines:**

- 35.1. The Design-Builder shall be responsible for Red-lines.
- 35.2. Prior to final completion, The Design-Builder shall prepare and submit one complete set of full sized (24-inch x 36-inch) original mylar final As-Built Drawing CADD plots in accordance with the City's CADD Guideline. Each CADD mylar drawing sheet shall be wet stamped and signed by qualified responsible engineers registered in the State of California, and shall be stamped and wet signed by the architect/engineer of record, as required by law. Other applicable portions of the drawing title blocks shall also be signed by the Design-Builder. Drawing mylar shall be 3 mils minimum thickness.
- 35.3. Prior to Final Completion, the Design-Builder shall also submit:
  - 35.3.1. Five complete full-sized sets of blueprint or copies of the final As-Built's.
  - 35.3.2. Two complete electronic file sets of the final As-Built's on CDs (typical) prepared in the V8 version of Bentley MicroStation CADD software in accordance with City's CADD Guideline.

**36. Record Keeping:**

- 36.1. The Design-Builder shall maintain in a safe place at the Project Site a copy of construction documents (including field test records, correspondence, daily reports, and written interpretations and clarifications), Shop Drawings, Product Data, and Samples in good order. Field Documents, Shop Drawings, Product Data, Samples, and similar submittals are not part of the Contract Documents. The purpose of these documents is to demonstrate construction conformance to the Contract Documents, and the City shall have the right to
- 36.2. The Design-Builder shall not have the authority to approve a Sample or other submittal that is not in strict conformance with the Contract Documents or the accepted final design, unless City has accepted the substitute. No Work requiring a submittal or sample submission shall commence until the submission has been approved by the Design-Builder. A copy of each approved submittal and each approved sample shall be kept in order by the Design-Builder at the Project Site.
- 36.3. The Design-Builder shall list and schedule submittals to be made and upon approval of each submittal transmit to City, within 5 Working Days, 2 copies of same. Failure to deliver the copies of approved submittals may result in withholding of progress payments.
- 36.4. The Design-Builder shall not be relieved of responsibility for any deviations from the requirements of the Contract Documents by City's acceptance of Shop Drawings, Product Data, Samples, or similar submittals unless the Design-Builder has specifically informed City of such deviation at the time of the submittal and City has accepted the specific deviation in writing. The Design-Builder shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by City's acceptance thereof. At the time of each submission, the Design-Builder shall, in writing, specifically identify deviations that the submittals or Samples may have from the requirements of the Contract Documents.

**37. Required Test/Material Certificates:**

37.1. The Design-Builder shall ensure that all tests are performed in accordance with the methods prescribed in the most current applicable national standard as may be required by law and as prescribed in the Contract Documents. Materials or Work in place that fails to pass acceptability tests shall be retested, at the direction of City and at the Design-Builder's sole expense. The Design-Builder shall submit all test certificates to City in a timely manner.

**38. Traffic Control:**

38.1. If a Task Order is awarded, the City will require the Design-Builder to develop a Traffic Control Plan which minimizes environmental impacts, including noise, to residences, businesses, and institutions.

**39. Reference Standards:**

39.1. Except as otherwise noted or specified, the Work shall be completed in accordance with reference standards listed in **INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS** of this RFP.

**40. Design Guidelines:**

40.1. Americans with Disabilities Act (ADA) I Americans with Disabilities Act Accessibility Guidelines (ADAAG)

40.2. American Water Works Association (AWWA)

40.3. California Building Code as adopted by the City of San Diego\*

40.4. California Code of Regulations, Title 24

40.5. City of San Diego Approved Materials List (AML)

40.6. City of San Diego Computer Aided Design and Drafting (CADD), <http://www.sandiego.gov/publicworks/edocref/drawings.shtml>

40.7. City of San Diego Landscape Technical Manual

40.8. City of San Diego's Manual of Preparation of Land Development and Public Improvement plans

<http://www.sandiego.gov/development-services/industry/landdevcode/landdevmanual.shtml>

40.9. City of San Diego Street Design Manual, <http://www.sandiego.gov/publicworks/pdf/edocref/streetdesignmanual02.pdf>

40.10. City of San Diego Technical Guidelines for Geotechnical Reports, <https://www.sandiego.gov/sites/default/files/legacy/development-services/pdf/industry/geoguidelines.pdf>

40.11. City of San Diego, Public Utilities Department Guidelines and Standards Books 1 through 7 <http://www.sandiego.gov/water/cip/guidelines.shtml>

40.12. County of San Diego Code of Regulations

- 40.13. National Electric Code (NBC) as adopted by the City of San Diego\*
- 40.14. State of California Health and Safety Code
- 40.15. Uniform Fire Code (UFC) as adopted by the City of San Diego\*
- 40.16. Uniform Mechanical Code (UMC) as adopted by the City of San Diego\*
- 40.17. Uniform Plumbing Code (UPC) as adopted by the City of San Diego\*
- 40.18. Construction Planning & Scheduling Manual by AGC of America
- 40.19. The National Environmental Policy Act (NEPA) and other development standards contained in the San Diego Municipal Code (SDMC) and other State and Federal regulatory documents
- 40.20. City of San Diego Municipal Code;  
<http://www.sandiego.gov/city-clerk/officialdocs/legisdocs/muni.shtml>
- 40.21. State Historic Preservation Act
- 40.22. Storm Water Standards Manual  
<http://www.sandiego.gov/stormwater/regulations/newpermitprog/newdev.shtml>

\*Any and all codes, regulations, and permits (including amendments) issued by City's Planning and Development Services Department.

**41. Bridging Documents:**

41.1. The following is a list of the Bridging Documents for this project available at: <ftp://ftp.sannet.gov/OUT/AC%20Water%201019/>

- AC WATER GROUP 1019
- 1.a. GJ 1019-Location Map
- 1.b. GJ 1019-City Survey (PM to provide CD upon request)
- 1.c. 10% Predesign Report
- 1.d. Predesign Constraints Map
- 1.e. Predesign Coordination Map
- 1.f. Predesign Paving Conflict Map
- 1.g. Predesign CMP Storm Drain Map
- 1.h. Predesign OCI Index Map
- 1.i. Machine Count Traffic BVolumes-City Streets
- 1.j. Access Law Design Compliance Memorandum
- 1.k. Preliminary Environmental Assessment Memorandum
- 1.l. Hydraulic Water Modeling Memorandum
- 1.m. Predesign Map
- 1.n. AC Water Group 1019- IMCAT Screen Shot.PNG

**42. Supplemental Requirements:**

All submitted hardcopy drawings and documents shall also be provided to the City in PDF format with electronically searchable text (not scanned images) to include drawings, specifications, details, reports, RFI's, Invoices, and all other documents of every type. Excel files of documents shall be provided when requested by the City.

- 42.1. The Design-Builder shall do all work as needed to accomplish the scope of work generally in accordance with the findings and recommendations in the Planning Study and the Preliminary Engineering Report (see bridging documents).
- 42.2. Only ADA improvements triggered by this project shall be included in the design. New sidewalks are not included except to replace portions triggered by ADA compliance requirements. See bridging documents.
- 42.3. The Design-Builder shall identify all existing fire services by field inspection, research of City records specifically including the City PUD cross connection database, and water billing records, and research of as-builts. Design-Builder shall provide all work necessary to reconnect all existing fire services.
- 42.4. Gate valves shall be used for water main up to and including 12" size. Butterfly valves shall be used on 16" or larger water mains which shall have a bypass installed for transmission mains only Valves shall be size on size to match fittings and reducers shall not be used to provide reduced size valves in lieu of this.
- 42.5. Five (5) feet of cover is required for all 16" transmission mains per the City Water Design Guide. Where this is not feasible or cost-effective the Design-Builder shall provide justification including calculations sufficient for the City PUD to allow an exception where appropriate.
- 42.6. This RFP provides as-built drawings and other information collected during preliminary planning for this project. The Design/Builder shall be responsible for researching and obtaining all as-built drawings and any other information from the City and/or other agencies which will be necessary to complete the scope of work.
- 42.7. The Design-Builder shall resolve design and construction problems by a typical professional process including but not limited to research, field investigation, developing alternates, calculations, cost-effective analysis, making decisions/recommendations and obtaining City concurrence as needed. This process shall be diligently followed before the Design-Builder seeks direction from the City.
- 42.8. The Design-Builder shall follow the City standard practice for design and construction when not specifically addressed in the RFP scope of work, reference documents, and design guides.



- 42.9. The Design/Builder shall submit a brief monthly progress report in a format acceptable to the City, with map illustrating where water, sewer, and storm drain pipe was installed, feet installed, total feet and percent complete (see bridging documents example Sample Progress Map) for the entire duration of the project.
- 42.10. The City shall not be responsible for any assumptions the Design-Builder based their price proposal on, and the Design-Builder shall not be entitled to any additional payment for any such assumptions on which their price was based.
- 42.11. The price proposal shall include all work and materials and any references in this RFP to unit price, lump sum price, bid price or similar language shall not entitle the Design-Builder to any additional payment.
- 42.12. The price proposal shall include all work and materials, and any references to or requirements for restricted work hours and/or night work shall not entitle the Design-Builder to any additional payment.
- 42.13. The Design-Builder shall perform all work described in the Preliminary Engineering Report, Page 9, Sec 3.2.1 Street Resurfacing to define the paving scope of work.
- 42.14. The Design-builder shall submit a Schedule of Values (SOV) with substantiating data that must include estimated quantities, unit costs, and extensions for each construction item in the SOV.
- 42.15. The RFP's maps and descriptions of proposed improvements such as "replace in place" are conceptual only and deviations from this in the final design by the Design-Builder shall not entitle the Design-Builder to any additional payment.
- 42.16. The Design-Builder shall do all work necessary for any required replumbing of sewer laterals including but not limited to preparing replumb agreements in a format acceptable to the City, and obtaining all necessary signatures, notarization, and getting them recorded at the County. Recording fees shall be paid by the Design-Builder.

**ATTACHMENT B**

**PHASED FUNDING PROVISIONS**

## ATTACHMENT B

### PHASED FUNDING PROVISIONS

#### 1. PHASED FUNDING

- 1.1. The selected The Design-Builder will be required to provide a Pre-award Schedule in accordance with sections 9-3 and 6-1 of the Supplementary Special Provisions (SSP) prior to award of Contract.
- 1.2. For phased funded contracts, the City typically secures enough funds for the first 90 Days of the contract prior to award. Within 10 Working Days after announcement of the Apparent Winner, the Design-Builder must contact the Project Manager to discuss fund availability and the duration of the first phase and submit the Pre-Award Schedule to the City for approval and preparation of the first Phased Funding Schedule Agreement.
- 1.3. The Design-Builder will be required to provide a Pre-award Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT" prior to award of Contract.
- 1.4. If the Proposal submitted by the Selected Design-Builder is rejected by the City for any reason, then within 5 Working Days after receiving notice, the subsequent Selected Design-Builder must provide the Pre-Award Schedule. This process will continue until the City has awarded the contract or has decided to reject all Proposals.
- 1.5. The first Phased Funding Schedule Agreement must show the fund availability for the first phase. Within 22 Working Days from the date of the announcement of, or notice to the next Selected Design-Builder (whichever occurs last) and once a Pre-Award Schedule is accepted by the City, the City will present the first Phased Funding Schedule Agreement to you when you are selected as the awarded Design-Builder.
- 1.6. At the City's request, you must meet with the City's Project manager before execution of the first Phased Funding Schedule Agreement to discuss their comments and requests for revision to the Pre-Award Schedule.
- 1.7. Your failure to perform the following may result in the Proposal being rejected as **non-responsive**:
  - 1.7.1. Meet with the City's Project Manager, if requested to do so, to discuss and respond to the City's comments regarding the Pre-Award Schedule,
  - 1.7.2. Revise the Pre-Award Schedule as requested by the City within the specified 22 Working Days timeframe, or
  - 1.7.3. Execute the first Phased Funding Schedule Agreement within a Day after receipt.

**PHASED FUNDING SCHEDULE AGREEMENT**

**Check one:**

- First Phased Funding Schedule Agreement  
 Final Phased Funding Schedule Agreement

**BID NUMBER: K-16-1400-MA C-3**

**CONTRACT OR TASK TITLE: AC Water Group 1019**

**CONTRACOTR: Orion Construction/Balboa Construction JV**

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Design Services/ Construction Services / Dewatering Permit and Discharge Fee and Dewatering Hazardous Waste contaminated Water.	NTP	08/29/2016	\$15,000.00 (AC Water Group 1019)
2	Design Services/ Construction Services/ Dewatering Permit and Discharge Fee and Dewatering Hazardous Waste contaminated Water.	08/30/2016	08/29/2017	\$1,600,000.00 (AC Water Group 1019)
3	Design Services/ Construction Services/ Dewatering Permit and Discharge Fee and Dewatering Hazardous Waste contaminated Water.	08/30/2017	NOC	\$4,360,000.00 (AC Water Group 1019)
Total				\$5,975,000.00

Notes:

- (1) City Supplement 9-3.6, "PHASE FUNDING COMPENSATION" applies.
- (2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- (3) This PHASE FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by a written modification to the CONTRACT.

OWNER: CITY OF SAN DIEGO

CONTRACTOR: Orion Construction/Balboa Construction JV

By: Jamal Shyqri  
 FOR Maryam Liaghat, Project Manager

By: R. Dawson / Liaudis

Date: 6/8/16

Date: 6/3/16  
 Orion Balboa

- END OF PHASE FUNDING SCHEDULE -

**ATTACHMENT C**  
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**ATTACHMENT D**  
**PREVAILING WAGES**

## ATTACHMENT D

### PREVAILING WAGES

1. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
  - 1.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
    - 1.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
    - 1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.

- 1.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed.
- 1.3. **Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
  - 1.3.1. For contracts entered into on or after April 1, 2015, Contractor and their subcontractors shall furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 1.4. **Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 1.5. **Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on design professionals and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 1.6. **Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 1.7. **Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."



- 1.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000.
- 1.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. As of March 1, 2015, no contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. As of April 1, 2015, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City upon request.
- 1.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

**ATTACHMENT E**  
**SUPPLEMENTARY SPECIAL PROVISIONS**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

The following Supplementary Special Provisions (SSP) modifies the following documents:

- 1) The **2015 Edition** of the Standard Specifications for Public Works Construction (The “GREENBOOK”) currently in effect.
  - 2) The **2015 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The “WHITEBOOK”).
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### **SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS**

- 1-2           **TERMS AND DEFINITIONS.** To the City Supplement, item 54, “Normal Working Hours”, ADD the following:

The Normal Working Hours are **8:30 AM to 3:30 PM.**

### **SECTION 2 – SCOPE AND CONTROL OF WORK**

- 2-3.2       **Self Performance.** DELETE in its entirety and SUBSTITUTE with the following:

1. You shall perform, with your own organization, Contract Work amounting to at least 50% of the base Bid alone or base Bid and any additive or deductive alternates that, when added or deducted together, form the basis of award.

- 2-9.2       **Survey Service.** DELETE in its entirety and SUBSTITUTE with the following:

1. Prior to the start of construction, you shall submit a letter to the Engineer identifying the Licensed Land Surveyor or the Registered Civil Engineer authorized to practice land surveying within the State of California that will be performing the survey services for the Project.
2. You are responsible for performing and meeting the accuracy of surveying standards adequate for construction through a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California.
3. Survey stakes shall be set and stationed by you for curbs, headers, water mains, sewers, storm drains, structures, rough grade, and any other structures and appurtenances that are needed for the Project. A corresponding cut or fill to finished grade (or flow line) shall be indicated on a grade sheet.
4. Surveys performed shall list the basis of bearings as tied to Record of Survey 14492 or equivalent, based on the California Coordinate System of 1983, Zone 6, U.S. Survey foot, epoch 1991.35, along with a

completed calibration sheet (blank form will be supplied by City Surveys). The vertical datum used shall be NGVD 29 in accordance with the City of San Diego Vertical Bench Book.

5. You shall preserve construction survey stakes, control points, and other survey related marks for the duration of the Project. If any construction survey stakes are lost or disturbed and need to be replaced, such replacement shall be performed by the Engineer at your expense.

#### **2-9.2.1 Survey Files.**

1. All Computer Aided Drafting (CAD) Work shall be done in accordance with the City of San Diego's Citywide Computer Aided Design and Drafting (CADD) Standards and shall be in City seed files (.job, .txt, .dgn, .alg, .raw, .fwd, .dtm, .pdf, .docx, .xlsx, .tif, and .jpg).
2. All survey files shall be completed in accordance with the City of San Diego's Citywide CADD Standards and shall adhere to the City's Microstation level and attribute structure.
3. The survey file deliverable will be either one Master .dgn file containing all xref's in geospatially referenced (and attached) models or one Master dgn with all xref's geospatially referenced (and attached) as dgn files. Resource files may be sent to you if requested.
4. Survey files shall include, but shall not be limited to, the following items:
  - a) Street center line and (record width) right-of-way lines.
  - b) Project geometry (.alg) files (this will be generated for use in InRoads).
  - c) 3D surface model (.dtm, break line and spot elevation) file.
  - d) Spot elevations of the new utility main at each intersection, midblocks, and for any change in grade.
  - e) Monuments.
  - f) Curb lines (top curb and gutter).
  - g) All other appurtenances including but not limited to water valves, meters, vaults, manholes, fire hydrants, utility boxes, cleanouts, and poles.
5. You shall use the survey information to produce red-lines drawings as described in Section 2-5.4 "Red-lines and Record Documents."

#### **2-9.2.2 Submittal.**

1. Survey files shall be submitted in accordance with 2-5.3, "Submittals" and 2-5.4, "Red-Lines and Record Documents". You shall provide the Survey Files, proposed Drawings, and/or Red-line Drawings on a CD/DVD to the Engineer and shall post the Survey Files, proposed Drawings, and/or Red-line Drawings to the following website:

<ftp://ftp.sannet.gov/IN/SURVEYS/>

2. After the documents have been posted to the website, you shall send a confirmation email, which includes the hyperlink to the website, to the Engineer and to [SurveyReview@sanidiego.gov](mailto:SurveyReview@sanidiego.gov).
3. All survey Work and submittals which reveal non-compliance with the requirements of the Construction Documents shall be corrected as deemed necessary by the Engineer and the cost of the corrections to your survey submittals shall be at your expense.

**2-9.2.3 Payment.**

Payment for survey services shall be included in the Contract Price.

**2-14.3 Coordination.** To the City Supplement, ADD the following:

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of AC Water Group 1019. See Appendix "F" for the approximate location. Coordinate the Work with the adjacent projects as listed below:
  - a) Pipeline Rehabilitation Z-1: PM: Jimenez, Meryl; 619-235-1977
  - b) Pipeline Rehabilitation Z-1A: PM: Jimenez, Meryl; 619-235-1977
  - c) Sewer and AC Water Group 776: PM: Gamueda, Sheila; 619-533-4244
  - d) Sewer Group 743 Laterals: PM: Tittle, Daniel; 619-533-7468
  - e) Sewer lateral Rehabilitaion J-2: PM: Liaghat, Maryam; 619-533-5192
  - f) Euclid WS Federal to Marliou Bond MS DS: PM: Nutter, Daniel; 619-533-7492
  - g) Webster Neighborhood Identification Sign: PM: Nutter, Daniel; 619-533-7492
  - h) Residential Project Block 4J1; PM: Xiao, Jie; 619-533-5496

**SECTION 4 - CONTROL OF MATERIALS**

**4-1.3.6 Preapproved Materials.** To the City Supplement, ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

**4-1.6 Trade Names or Equals.** ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on the City's Product Submittal Form available at:

<http://www.sandiego.gov/publicworks/edocref/index.shtml>

## SECTION 5 – UTILITIES

- 5-2           **PROTECTION.** To the City Supplement, item 2, ADD the following:
- g)       AMI devices shall be protected in place.

## SECTION 6 – PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

- 6-2.1       **Moratoriums.** To the City Supplement, ADD the following:
- 3.       Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed here:
    - a)       Public Works CIP Moratorium, along Federal Blvd, from 8/21/2013 to 8/21/2016 (inclusive).

### ADD:

- 6-3.2.1.1   **Environmental Document.**
- 1.       The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a **Notice of Exemption** for **AC Water Group 1019 Design-Build**, WBS No. **B-15112**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Notice of Exemption** as set forth in Appendix A.
  - 2.       Compliance with the City's environmental document shall be included in the Contract Price.
- 6-7.1       **General.** To the City Supplement, item 3, ADD the following:
- d)       30 Days for full depth asphalt final mill and resurfacing work required per SDG-107.
  - e)       Where shutdowns of 16 inch and larger pipes are required, there is a shutdown moratorium from May until October. Plan and schedule Work accordingly. No additional payment or Working Days will be granted for delays due to the moratorium.

## SECTION 7 – RESPONSIBILITIES OF THE CONTRACTOR

- 7-3       **LIABILITY INSURANCE.** DELETE in its entirety and SUBSTITUTE with the following:

The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

- 7-3.1       **Policies and Procedures.**
- 1.       You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including

injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.

2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.
4. The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided and the City has approved all required insurance.
5. Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

### **7-3.2 Types of Insurance.**

#### **7-3.2.1 Commercial General Liability Insurance.**

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

**7-3.2.2 Commercial Automobile Liability Insurance.**

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles (“Any Auto”).
2. All costs of defense shall be outside the limits of the policy.

**7-3.2.3 Contractors Pollution Liability Insurance.**

1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. Any such insurance provided by your Subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of a substitution of your Subcontractor’s insurance, you shall certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed \$25,000 per claim.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either “insured vs. insured” claims or contractual liability.
5. Occurrence based policies shall be procured before the Work commences and shall be maintained for the Contract Time. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12



months after the completion of the Work without advancing the retroactive date.

6. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

**7-3.2.4 Contractors Hazardous Transporters Pollution Liability Insurance.**

1. You shall provide at your expense or require your Subcontractor to provide, as described below, Contractors Hazardous Transporters Pollution Liability Insurance including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit per occurrence/aggregate for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. The deductible shall not exceed \$25,000 per claim. Any such insurance provided by a subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of the substitution of Subcontractor's insurance the Contractor shall certify that all activities for which Contractors Hazardous Transporters Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. Occurrence based policies shall be procured before the Work commences and shall be maintained for the duration of this Contract. Claims Made policies shall be procured before the Work commences, shall be maintained for the duration of this contract, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work under this Contract without advancing the retroactive date.
5. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

**7-3.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least “A-, VI” by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

**7-3.3.1 Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, “surplus lines” carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

**7-3.4 Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

**7-3.5 Policy Endorsements.**

**7-3.5.1 Commercial General Liability Insurance**

**7-3.5.1.1 Additional Insured.**

1. You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
3. The additional insured coverage for projects for which the Engineer’s Estimate is \$1,000,000 or more shall include liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products,
  - c) your Work, e.g., your completed operations performed by you or on your behalf, or
  - d) premises owned, leased, controlled, or used by you.
4. The additional insured coverage for projects for which the Engineer’s Estimate is less than \$1,000,000 shall include liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products, or
  - c) premises owned, leased, controlled, or used by you.

**7-3.5.1.2 Primary and Non-Contributory Coverage.** The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**7-3.5.1.3 Project General Aggregate Limit.** The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

**7-3.5.2 Commercial Automobile Liability Insurance.**

**7-3.5.2.1 Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

**7-3.5.3 Contractors Pollution Liability Insurance Endorsements.**

**7-3.5.3.1 Additional Insured.**

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products,
  - c) your work, e.g., your completed operations performed by you or on your behalf, or
  - d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

**7-3.5.3.2 Primary and Non-Contributory Coverage.** The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**7-3.5.3.3 Severability of Interest.** For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

**7-3.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.**

**7-3.5.4.1 Additional Insured.**

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products,
  - c) your work, e.g., your completed operations performed by you or on your behalf, or
  - d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of §2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

**7-3.5.4.2 Primary and Non-Contributory Coverage.** The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**7-3.5.4.3 Severability of Interest.** For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

**7-3.6 Deductibles and Self-Insured Retentions.** You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

**7-3.7 Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

**7-3.8 Notice of Changes to Insurance.** You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

**7-3.9 Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

**7-3.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).**

1. For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of \$1,000,000 per claim and \$2,000,000 annual aggregate in full force and effect.

2. You shall ensure the following:
  - a) The policy retroactive date is on or before the date of commencement of the Project.
  - b) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
  - a) Certify this to the City in writing and
  - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

**7-4 WORKERS' COMPENSATION INSURANCE.** DELETE in its entirety and SUBSTITUTE with the following:

**7-4.1 Workers' Compensation Insurance and Employers Liability Insurance.**

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.
2. Limits for this insurance shall be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

**7-4.1.1 Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives

for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

**7-8.6 Water Pollution Control.** ADD the following:

6. Based on a preliminary assessment by the City, this Contract is subject to WPCP.

**ADD:**

**7-16.1.3 Weekly Updates Recipients.**

1. Submit a weekly correspondence with updates, traffic control issues and locations, lane closures, and any other pertinent information (with additional contact names given during award process) to the following recipients:

Michael Ninh, Senior Engineer, [MNinh@sandiego.gov](mailto:MNinh@sandiego.gov)

Maryam Liaghat, Project Manager, [MLiaghat@sandiego.gov](mailto:MLiaghat@sandiego.gov)

Ken Finnigan, Resident Engineer, [KFinnigan@sandiego.gov](mailto:KFinnigan@sandiego.gov)

**7-16.3 Exclusive Community Liaison Services.** To the City Supplement, ADD the following:

2. You shall retain an Exclusive Community Liaison for the Project that shall implement Work in accordance with the specifications described in 7-16.2 "Community Outreach Services" and 7-16.3 "Exclusive Community Liaison Services".

**7-20 ELECTRONIC COMMUNICATION.** ADD the following:

2. Virtual Project Manager shall be used on this Contract.

**SECTION 9 - MEASUREMENT AND PAYMENT**

**ADD:**

**9-3.7 Compensation Adjustments for Price Index Fluctuations.** To the City Supplement ADD the following:

5. This Contract is not subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

**SECTION 10 – GREEN BUILDINGS AND STORM WATER MANAGEMENT**

**ADD:**

**10-3 STORM WATER MANAGEMENT DISCHARGE CONTROL.**

1. You shall comply with Chapter 4, Article 3, Division 3 of the San Diego Municipal Code, Storm Water Management and Discharge Control, Municipal Storm Water Permit (MS4), California Regional Water Quality Control Board Order No. R9-2013-0001 (amended by R9-2015-0001 and R9-2015-0100), Storm Water Standards Manual, as amended

from time to time, and any and all Best Management Practice (BMP) guidelines and pollution elimination requirements as may be established by the Enforcement Official. You warrant and certify that any and all Plans, reports, and specifications prepared for the City in accordance with this agreement shall meet all requirements of the San Diego Municipal Code and Storm Water Standards Manual. You understand that while the City will be reviewing your designs for storm water permit compliance prior to acceptance of Design-Builder's designs, you shall also understand and agree that the City's Storm Water review process and its acceptance of your designs in no way limits the your obligations under this agreement to prepare designs that comply with all requirements of the San Diego Municipal Code and MS4 Permit.

2. You shall complete and update the Storm Water Applicability Checklist (DS-560) to confirm the project's appropriate storm water requirements. For all applicable projects, and to the maximum extent practicable, you shall incorporate and include Source Control and Low Impact Development (LID) design features or Site Design BMPs on the construction plans. Additionally, for Priority Development projects, you shall prepare a Storm Water Quality Management Plan (SWQMP) in accordance with the requirements of the Storm Water Standards Manual. You shall prepare a SWQMP Drainage Management Area Map showing all LID site design, source control and treatment control BMPs, hydromodification management plan facilities, and tabulated calculations. Include sufficient details and cross sections for construction. The Drainage Management Area Map shall be included as part of the construction Plans in addition to the Storm Water Infrastructure cover sheet. A template of the Storm Water Infrastructure cover sheet will be provided by the City.
3. You shall attend the Pre-construction meeting. If applicable, you shall inspect and confirm that the permanent BMP was installed in accordance with the details on the Plans and that the permanent BMP functions meet the requirements of the MS4 Permit. Upon notification by the Engineer, the Design-Builder Engineer of Work shall sign and stamp the Permanent BMP Self Certification on the Plans or the Permanent BMP Self Certification Form (DS-563) prior to final acceptance by the City.
4. For projects requiring soil-disturbance Work such as geotechnical borings, street coring, and potholing as component of the design, you shall complete a Minor Water Pollution Control Plan (DS-570), if applicable.

### **SECTION 203 – BITUMINOUS MATERIALS**

**203-3.4.4 RUBBER POLYMER MODIFIED SLURRY (RPMS).** To the City Supplement, ADD the following:

1. RPMS shall be used on this Contract.



**SECTION 209 – PRESSURE PIPE**

**209**            **PRESSURE PIPE.** To the City Supplement, ADD the following:

- 2.        PVC products, specifically type C900 and C905, as manufactured or distributed by J-M Manufacturing Company or JM Eagle shall not be used on the Contract for pressurized pipe.

**SECTION 302 – ROADWAY SURFACING**

**302-4.12.2.1**   **General.** To the City Supplement, ADD the following:

When Type I is to be applied over Type III, corrective action in accordance with 302-4.11.1.2, “Reduction in Payment Based on WTAT” such as reductions in payment, non-payment, or removal of Type III material not meeting specifications as directed by the Engineer shall be executed prior to the application of the Type I material.

**SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION**

**306-1**            **GENERAL.** ADD the following:

Build the Project in accordance with the water high lining phasing design that will be shown on the Plans.

When installing pipelines within the City’s streets, the total time allowed for the completion of Work may not exceed 10 Working Days per 500’ of pipeline installation.

**306-7.8.2.1**   **General.** To the City Supplement, item 2, ADD the following:

- a)        Specified test pressure for Class 235 pipe shall be 150 psi.
- b)        Specified test pressure for Class 305 pipe shall be 200 psi.

**SECTION 601- TEMPORARY TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES**

**601-2.1.2**       **Engineered Traffic Control Plans (TCP).** To the City Supplement, ADD the following:

- 6.        Engineered TCP (2 foot x 3 foot size) shall be required for the following areas:
  - a) Euclid Avenue between Federal Boulevard to Marilou Street.
  - b) Euclid Avenue between Marilou Road to 54<sup>th</sup> Street.
  - c) Federal Boulevard between 50<sup>th</sup> Street to Euclid Ave.

**END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)**

**APPENDIX A**  
**NOTICE OF EXEMPTION**

NOTICE OF EXEMPTION

(Check one or both)

TO: X RECORDER/COUNTY CLERK
P.O. BOX 1750, MS A-33
1600 PACIFIC HWY, ROOM 260
SAN DIEGO, CA 92101-2422

FROM: CITY OF SAN DIEGO
PUBLIC WORKS DEPARTMENT
525 B STREET, SUITE 750, MS 908A
SAN DIEGO, CA 92101

OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121
SACRAMENTO, CA 95814

PROJECT/WBS No.: B-15112.02.06

PROJECT TITLE: AC Water Group 1019

PROJECT LOCATION-SPECIFIC: Along portions of the following streets: Dafter Place, Drafter Drive, Deaton Drive, Genesta Street, 50th Street, Fir Street, Oakshire Court, Westover Place, Elm Street, Date Place, Date Street, Marilou Road, 49th Street, Duval Street, 48th Street, Tilden Street, Brookline Street, Federal Boulevard, Euclid Avenue, and Altadena Avenue. The project is located within the Mid-City: Eastern Area Community Plan area (Council District 4).

PROJECT LOCATION-CITY/COUNTY: San Diego/San Diego

DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT: AC Water Group 1019 will replace-in-place approximately 6,628 linear feet (LF) of 8-inch asbestos cement (AC) water main with 8-inch polyvinyl chloride (PVC) piping and 10,181 LF of 6-inch AC water main with 8-inch PVC piping via open trench method of construction. Replacement of the water mains will require a trench width of three feet and trench depth of four feet (same depth as the existing mains). All construction work will be in the public right-of-way. Appurtenances will include water laterals and service connections, ADA curb ramps, and street resurfacing and striping over the trenches.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: City of San Diego Public Works Department,
Contact: Maryam Liaghat; Ph: (619) 533-5192
525 B Street, Suite 750, San Diego, CA 92101

EXEMPT STATUS: (CHECK ONE)

- ( ) MINISTERIAL (SEC. 21080(b)(1); 15268);
( ) DECLARED EMERGENCY (SEC. 21080(b)(3); 15269(a));
( ) EMERGENCY PROJECT (SEC. 21080(b)(4); 15269 (b)(c))
(X) CATEGORICAL EXEMPTION: 15301(b) [Existing Facilities] and 15302(c) [Replacement or Reconstruction]
( ) STATUTORY EXEMPTIONS:

REASONS WHY PROJECT IS EXEMPT: The City of San Diego conducted an environmental review and determined the project meets the categorical exemption criteria set forth in the CEQA State Guidelines §15301(B) [EXISTING FACILITIES], which allows for the repair and maintenance of existing public facilities, including publicly owned utilities, involving negligible or no expansion of the use beyond that existing at the time of the lead agency's determination; §15302(C) [REPLACEMENT OR RECONSTRUCTION], which allows for the replacement or reconstruction of existing utility systems, where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced; and where the exceptions listed in CEQA Guidelines §15300.2 would not apply. This project would not impact sensitive resources.

LEAD AGENCY CONTACT PERSON: JUAN BALIGAD, SENIOR PLANNER

TELEPHONE: (619) 533-5473

IF FILED BY APPLICANT:

- 1. ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING.
2. HAS A NOTICE OF EXEMPTION BEEN FILED BY THE PUBLIC AGENCY APPROVING THE PROJECT?
( ) YES ( ) NO

[Signature]
CARRIE PURCELL, PRINCIPAL PLANNER

12/28/15
DATE

CHECK ONE:
(X) SIGNED BY LEAD AGENCY
( ) SIGNED BY APPLICANT

DATE RECEIVED FOR FILING AT OPR:

**APPENDIX B**  
**FIRE HYDRANT METER PROGRAM**

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 1 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

**Reference**

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 2 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.

3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.

4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.

4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:

a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.

b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:

1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 3 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
7. All private fire hydrant meters shall have backflow devices attached when installed.
8. The customer must maintain and repair their own private meters and private backflows.
9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 4 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
  12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
  13. The outlet shall have a 2 ½ “National Standards Tested (NST) fire hydrant male coupling.
  14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

**4.6 Conditions and Processes for Issuance of a Fire Hydrant Meter**

Process for Issuance

- a. Fire hydrant meters shall only be used for the following purposes:
  1. Temporary irrigation purposes not to exceed one year.



<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 5 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

2. Construction and maintenance related activities (see Tab 2).

- b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
- c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
- d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
- e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
- f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
- g. After the fees have been paid and an account has been created, the

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 6 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

#### 4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as "Hotline"), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter's relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

#### 4.8 Disconnection of Fire Hydrant Meter

- a. After ten (10) months a "Notice of Discontinuation of Service" (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 7 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

- a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 8 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 9 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

7. **FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. **UNAUTHORIZED USE OF WATER FROM A HYDRANT**

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

<b>CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS</b>	<b>NUMBER DI 55.27</b>	<b>DEPARTMENT Water Department</b>
<b>SUBJECT  FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)</b>	<b>PAGE 10 OF 10</b>	<b>EFFECTIVE DATE  October 15, 2002</b>
	<b>SUPERSEDES DI 55.27</b>	<b>DATED April 21, 2000</b>

- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

**Larry Gardner  
Water Department Director**

- Tabs: 1. Fire Hydrant Meter Application  
2. Construction & Maintenance Related Activities With No Return To Sewer  
3. Notice of Discontinuation of Service

#### **APPENDIX**

**Administering Division:** Customer Support Division

**Subject Index:** Construction Meters  
Fire Hydrant  
Fire Hydrant Meter Program  
Meters, Floating or Vehicle Mounted  
Mobile Meter  
Program, Fire Hydrant Meter

**Distribution:** DI Manual Holders



# Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

## Meter Information

Application Date	Requested Install Date:
------------------	-------------------------

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) Zip:	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, If so, explain:		
Estimated Duration of Meter Use:		Check Box if Reclaimed Water

## Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
*Business license#		*Contractor license#	
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			Phone: ( )
Site Contact Name and Title:			Phone: ( )
Responsible Party Name:			Title:
Cal ID#			Phone: ( )
Signature:		Date:	
Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter			

<b>Fire Hydrant Meter Removal Request</b>	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ( )	Pager: ( )

City Meter	Private Meter
Contract Acct #:	Deposit Amount: <b>\$ 936.00</b> Fees Amount: <b>\$ 62.00</b>
Meter Serial #	Meter Size: <b>05</b> Meter Make and Style: <b>6-7</b>
Backflow #	Backflow Size: Backflow Make and Style:
Name:	Signature: Date:

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing  
Backfilling  
Combination Cleaners (Vactors)  
Compaction  
Concrete Cutters  
Construction Trailers  
Cross Connection Testing  
Dust Control  
Flushing Water Mains  
Hydro Blasting  
Hydro Seeing  
Irrigation (for establishing irrigation only; not continuing irrigation)  
Mixing Concrete  
Mobile Car Washing  
Special Events  
Street Sweeping  
Water Tanks  
Water Trucks  
Window Washing

**Note:**

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.



Date

Name of Responsible Party  
Company Name and Address  
Account Number: \_\_\_\_\_

Subject:           Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # \_\_\_\_\_, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego  
Water Department  
Attention: Meter Services  
2797 Caminito Chollas  
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) \_\_\_\_\_ - \_\_\_\_\_.

Sincerely,

Water Department

**APPENDIX C**

**MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE**

## Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

**APPENDIX D**  
**SAMPLE CITY INVOICE**

5 Aero Drive, SD CA 92123		<b>Contractor's Name:</b>	
		Contractor's Address:	
		Contractor's Phone #:	<b>Invoice No.</b>
		Contractor's fax #:	<b>Invoice Date:</b>
Fax#:		Contact Name:	Billing Period: (        to

Contract Authorization				Previous Totals To Date		This Estimate		Totals to Date	
Unit	Price	Qty	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
			\$ -		\$ -		\$ -	0.00%	\$ -
			\$ -		\$ -		\$ -	0.00%	\$ -
			\$ -		\$ -		\$ -	0.00%	\$ -
			\$ -		\$ -		\$ -	0.00%	\$ -
			\$ -		\$ -		\$ -	0.00%	\$ -
			\$ -		\$ -		\$ -	0.00%	\$ -
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			\$ -		\$ -		\$ -	0.00%	\$ -
			\$ -		\$ -		\$ -	0.00%	\$ -
Authorized Amount (including approved Change Order)			\$ -		\$ -		\$ -	<b>Total Billed</b>	\$ -

	\$ -
Thru #00	\$ -
-B)	\$ -
	\$ -
D )	\$ -
3	\$ -
<b>ion</b>	<b>\$0.00</b>
<b>nt</b>	<b>\$0.00</b>

**I certify that the materials  
have been received by me in  
the quality and quantity specified**

---

**Resident Engineer**

---

**Construction Engineer**

<b>Retention and/or Escrow Payment Schedule</b>	
Total Retention Required as of this billing (Item E)	\$0.00
Previous Retention Withheld in PO or in Escrow	\$0.00
<b>Add'l Amt to Withhold in PO/Transfer in Escrow:</b>	<b>\$0.00</b>
<b>Amt to Release to Contractor from PO/Escrow:</b>	

Contractor Signature and Date: \_\_\_\_\_

**APPENDIX E**  
**LOCATION MAP**

PREDESIGN LOCATION MAP

# AC WATER GROUP 1019



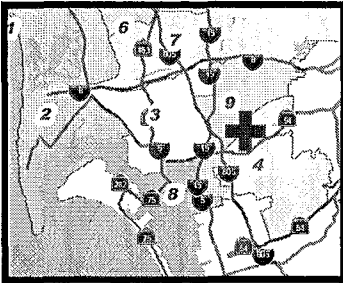
PROJECT IMPLEMENTATION DIVISION

PREDESIGN SENIOR ENGINEER  
ALEX GARCIA  
(619) 533-3634

PREDESIGN PROJECT MANAGER  
TINA HUANG  
(619) 533-3863

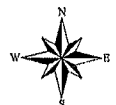
PREDESIGN PROJECT ENGINEER  
VIRGINIA OSKOU  
(619) 533-5152

PREDESIGN DRAFTER  
TEDDY RAMOS  
(619) 533-3734



## Legend

AC Water Group 1019



No Scale

Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drilling Water & Sewer Projects\AC Water Projects\AC Water Group 1019\CIP Tracking\Location Maps\PreDesign Location Map (1-28-2015).mxd

Community Name: Mid-City: Eastern Area

Council District: 4

SAP ID# B15112 (W)

MACC Request for Proposal (Rev. Feb 2016) Appendix E - Location Map AC Water Group 1019

103 | Page

Date: 1/26/2015



Last updated by: TRamos on 1/26/2015 at 1:20:56 PM

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**APPENDIX F**  
**HYDROSTATIC DISCHARGE FORM**



**Discharge Events Certification** (Discharge Events  $\geq 325,850$  gpd)

certification must comply with the Regional Water Quality Control Board (RWQCB) Order No. R9-2010-0003, General Permit for Discharges of  
 to Surface Water and Storm Drains as referenced by  
 /board\_decisions/adopted\_orders/2010/R9-2010-0003.pdf), and as follows:

to below **0.1 (mg/l)** level; and effluent has been maintained between **6 and 9**

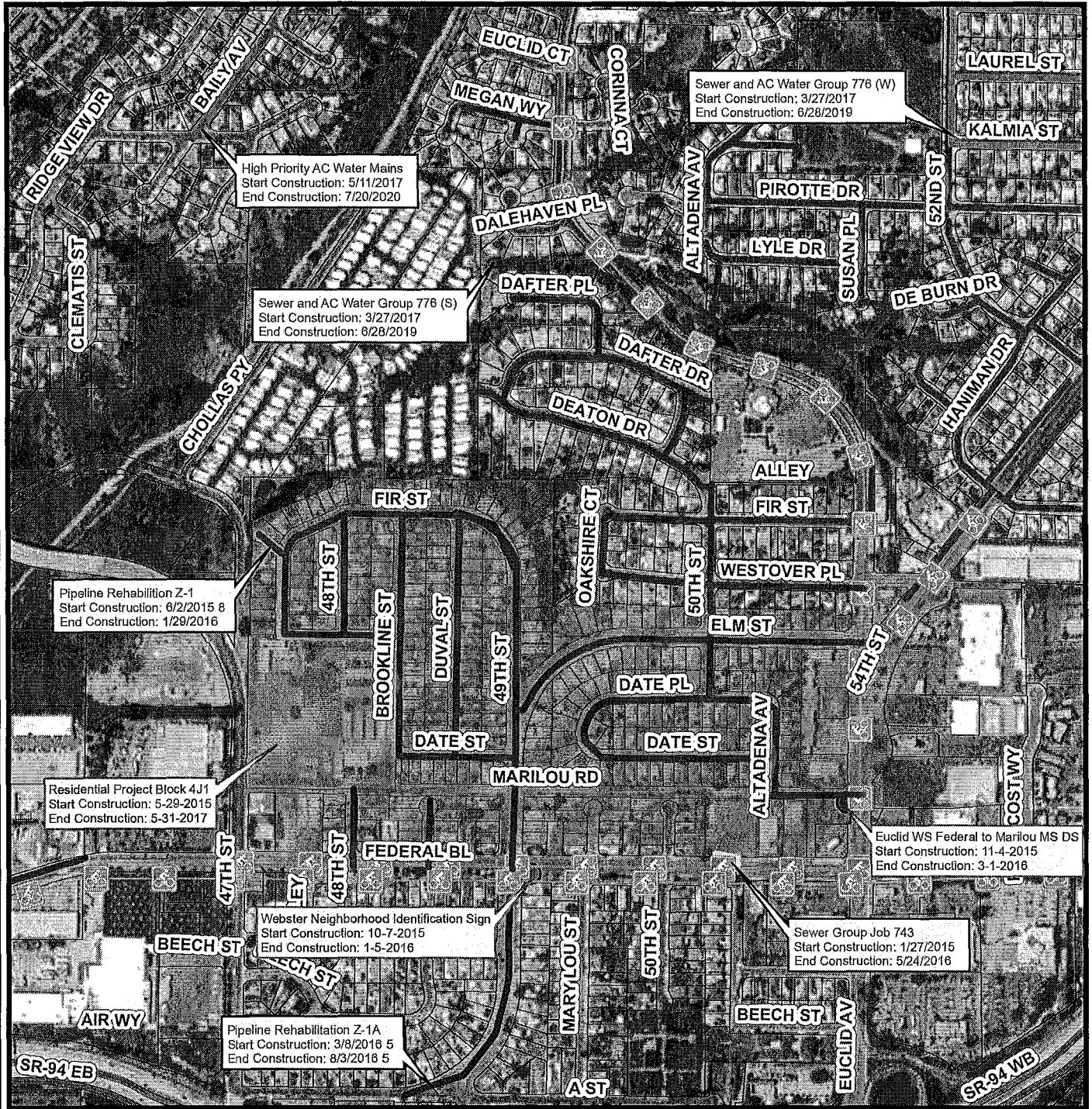
Date	Amount (gpd)	Description of the Proposed Discharge	Method and Test Result	Is Discharge Within Limits?		Comment/Action Taken
				YES	NO	
<b>Date:</b>				<b>SAP No.(s):</b>		
				<b>Project Name:</b>		

certify that all of the statements and conditions for hydrostatic discharge events are correct.

003, would this be a reportable discharge and must be reported **within 24 hours** of the event? [Reportable discharge would include violation of maximum gallons per day, any upset which exceeds any

**APPENDIX G**  
**ADJACENT PROJECTS**

PREDESIGN PROJECT COORDINATION MAP  
**AC WATER GROUP 1019**



**Legend**

- AC Water Group 1019
- Pipeline Rehabilitation Z-1A
- Pipeline Rehabilitation Z-1
- Sewer Group Job 743
- Sewer Group Job 743 Lateral
- Sewer and AC Water Group 776 (S)
- Sewer and AC Water Group 776 (W)
- Residential Project Block 4J1
- Bike Route Proposed
- Euclid WS Federal To Marilou Bond MS DS
- Webster Neighborhood Identification Sign
- High Priority AC Water Mains
- Pipeline Rehabilitation V-1



(Document Path: S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drilling\Water & Sewer Projects\AC Water Projects\AC Water Group 1019\CIP Tracking\Project Coordination Map\PreDesign Project Coordination Map (2-23-2015).mxd)

Date: 3/9/2015

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**APPENDIX H**  
**HAZARDOUS LABEL/FORMS**

# HAZARDOUS WASTE

**STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL  
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY  
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY  
OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES**

GENERATOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_ 24 HR. PHONE ( ) \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

EPA ID NO. \_\_\_\_\_ MANIFEST DOCUMENT NO. \_\_\_\_\_

EPA WASTE NO. \_\_\_\_\_ CA WASTE NO. \_\_\_\_\_ ACCUMULATION START DATE \_\_\_\_\_ / \_\_\_\_ / \_\_\_\_

CONTENTS, COMPOSITION \_\_\_\_\_

PROPER DOT SHIPPING NAME \_\_\_\_\_

TECHNICAL NAME (S) \_\_\_\_\_

UN/NA NO. WITH PREFIX \_\_\_\_\_

PHYSICAL STATE    HAZARDOUS PROPERTIES     FLAMMABLE     TOXIC  
 SOLID    LIQUID   |    CORROSIVE     REACTIVE     OTHER \_\_\_\_\_

## HANDLE WITH CARE!

CONTAINS HAZARDOUS OR TOXIC WASTES

# INCIDENT/RELEASE ASSESSMENT FORM <sup>1</sup>

## If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

### Questions for Incident Assessment:

	YES	NO
1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	<input type="checkbox"/>	<input type="checkbox"/>
2. Did anyone, other than employees in the immediate area of the release, evacuate?	<input type="checkbox"/>	<input type="checkbox"/>
3. Did the release cause off-site damage to public or private property?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the release greater than or equal to a reportable quantity (RQ)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Was there an uncontrolled or unpermitted release to the air?	<input type="checkbox"/>	<input type="checkbox"/>
6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	<input type="checkbox"/>	<input type="checkbox"/>
8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	<input type="checkbox"/>	<input type="checkbox"/>
10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

\*Call 911 in an emergency\*

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a “no” response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

<sup>1</sup> This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

# NON REPORTABLE RELEASE INCIDENT FORM

## 1. RELEASE AND RESPONSE DESCRIPTION

Incident # \_\_\_\_\_

Date/Time Discovered	Date/Time Discharge	Discharge Stopped <input type="checkbox"/> Yes <input type="checkbox"/> No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

## 2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

## 3. CHEMICAL INFORMATION

Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

## EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER ( ) -
B	INCIDENT DATE: MO   DAY   YR   TIME OES NOTIFIED (use 24 hr time)	OES CONTROL NO.
C	INCIDENT ADDRESS LOCATION	CITY/ COMMUNITY COUNTY ZIP
D	CHEMICAL OR TRADE NAME (print or type)	CAS Number
	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A <input type="checkbox"/>	CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) <input type="checkbox"/>
	PHYSICAL STATE CONTAINED: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	PHYSICAL STATE RELEASED: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS
	ENVIRONMENTAL CONTAMINATION: <input type="checkbox"/> AIR <input type="checkbox"/> WATER <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER	QUANTITY RELEASED: _____ TIME OF RELEASE: _____ DURATION OF RELEASE: _____ DAYS _____ HOURS _____ MINUTES
E	ACTIONS TAKEN	
	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information) <input type="checkbox"/> ACUTE OR IMMEDIATE (explain) _____ <input type="checkbox"/> CHRONIC OR DELAYED (explain) _____ <input type="checkbox"/> NOTKNOWN (explain) _____	
G	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS	
H	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)	
I	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type) _____ SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____	



## **EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS**

### **GENERAL INFORMATION:**

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

### **BASIC INSTRUCTIONS:**

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

### **SPECIFIC INSTRUCTIONS:**

**Block A:** Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

**Block B:** Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

**Block C:** Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

**Block D:** Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

**Block E:** Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

**Block F:** Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

**Block G:** Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

**Block H:** List any additional pertinent information.

**Block I:** Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

### **MAIL THE COMPLETED REPORT TO:**

**State Emergency Response Commission (SERC)  
Attn: Section 304 Reports  
Hazardous Materials Unit  
3650 Schriever Avenue  
Mather, CA 95655**

**NOTE:** Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

**APPENDIX I**

**PRELIMINARY ENVIRONMENTAL ASSESSMENT MEMO**



THE CITY OF SAN DIEGO  
M E M O R A N D U M

DATE: January 12, 2015

TO: Tina Huang, CIP Preliminary Engineering and Program Coordination, PI Division

FROM: Carrie Purcell, Principal Planner, via Environmental and Permitting Support, PI Division

SUBJECT: Preliminary Environmental Assessment for *AC Water Group 1019*, Internal Order No. 21002242

---

The Environmental Permitting Section (EPS) has reviewed the project information and prepared the following preliminary environmental assessment (PEA) for the *AC Water Group 1019* project. The PEA request form and location map have been provided for review (attached), and this is a discussion about the issues involved, which may include some recommendations about the need for additional information and possible steps necessary to move the project forward as it relates to environmental items and permitting.

**NOTE: This assessment is intended for use by Public Works staff only, and should not be forwarded to other reviewing departments or agencies (e.g., Development Services). Consult EPS staff directly for assistance with updating or converting the content of this document into appropriate regulatory submittal documentation.**

**PROJECT DESCRIPTION**

The project would replace-in-place approximately 6,628 linear feet (LF) of 8-inch asbestos cement (AC) water main with 8-inch polyvinyl chloride (PVC) piping and 10,181 LF of 6-inch AC water main with 8-inch PVC piping via open trench method of construction. Replacement of the water mains would require a trench width of three feet and trench depth of four feet (same depth as the existing mains). Construction is targeted to start June 2016 and end February 2018, and funding would come from annual allocations.

The project is located within the Mid-City: Eastern Area Community Plan area (Council District 4), and would affect portions of the following streets: Dafter Place, Drafter Drive, Deaton Drive, Genesta Street, 50<sup>th</sup> Street, Fir Street, Oakshire Court, Westover Place, Elm Street, Date Place,

Date Street, Marilou Road, 49<sup>th</sup> Street, Duval Street, 48<sup>th</sup> Street, Tilden Street, Brookline Street, Federal Boulevard, Euclid Avenue, and Altadena Avenue.

### **ENVIRONMENTALLY SENSITIVE LANDS**

The following subsections contain analyses of potential project impacts to environmentally sensitive lands (ESL), which could result in the need for City and/or Resource Agency permits.

#### **Biological Resources**

This project lies entirely within urban developed areas, is not adjacent to the City's Multi-Habitat Planning Area (MHPA) or any natural resource/open space areas, and should not require any biological studies or monitoring during construction.

Action: Any street tree work should be cleared through the General Services Urban Forestry Section at 619-527-7500. Any landscaping will be subject to the City's Landscaping requirements found at

<http://docs.sandiego.gov/municode/MuniCodeChapter14/Ch14Art02Division04.pdf>.

#### **Steep Slopes, Coastal Bluffs or Beaches**

This project does not involve impacts to Steep Hillside, Coastal Bluffs or Beaches, as defined in the Land Development Code's ESL Regulations.

#### **Historical Resources**

The project is not located within a historical sensitivity area, and all work is occurring within previously disturbed soils (i.e. existing trenches). The project should not impact buried archaeological resources. The City's standard specifications include provisions for discoveries during construction.

#### **Historic Districts and Landmarks**

The project does not propose modification, reconstruction, and/or replacement of a structure over 45 years old.

Any improvements that would require the removal of sidewalks and/or curbs would need to consider and/or avoid historic sidewalk stamps (45 years or older) should they exist. The preservation of such stamps could be accomplished through careful removal and/or relocation, as well as aesthetic integration (concrete scoring patterns, color, etc.) or other features as per City standards (SDG-115).

Action: Standard specifications identified by the Greenbook specifications could satisfactorily address the issue.

#### **Paleontological Resources**

Paleontological resources would not likely be impacted as excavation would not equal to or exceed a depth of 10 feet in an undisturbed moderate or high sensitivity formation. All work is also occurring within previously disturbed soils. However, further review by DSD will determine if there are documented paleontological discoveries near the project.

## **WATER QUALITY / STORM WATER**

There are two potential permits: the Municipal Permit and the General Construction Permit. The permits have requirements for the design and construction phases based on the type, size, duration, and location of your project.

### **Design Phase Requirements:**

This project is exempt from permanent storm water Best Management Practices (BMPs) per the Storm Water Requirements Applicability Checklist (Form DS-560).

Action: Check Box #2 in Part A and Box #1 in Part C of the DS-560 form. Please contact EPS if you would like assistance filling out this form.

This project is not subject to the Hydromodification Management Plan (HMP) requirements according to the decision tree in the Standard Urban Storm Water Mitigation Plan (SUSMP).

### **Construction Phase Requirements:**

Since the project is considered maintenance of an existing linear utility project, it is not subject to the General Construction Permit.

Action: Check Box #6 in Part D of Form DS-560. The contractor must prepare a Water Pollution Control Plan (WPCP) compliant with the Municipal Storm Water Permit prior to construction and preferably prior to the pre-construction meeting.

### **Construction site priority:**

Based on the land disturbance equations, this project's disturbance totals 1.16 acre. Therefore, it will likely be a medium priority project.

Action: Check Box # 2 in Part E of Form DS-560. However, before final design the acreage should be recalculated. Contact EPS for assistance.

## **GREENHOUSE GAS EMISSIONS**

Since your project is likely to be exempt from CEQA, greenhouse gas (GHG) emissions levels would not apply.

## **PUBLIC HEALTH AND HAZARDOUS SITES**

The project does not occur within the hazardous areas identified by the Environmental Services Department's (ESD) GIS map layer.

### **Within 1,000 ft of the project:**

There is one burn site/landfill located adjacent to the project area identified as Webster Elementary. Please see the attached Geotracker Site Listings Map for the exact location.

There are five leaking underground storage tank (LUST) cases documented within 1,000 feet of the project, and four permitted underground storage tanks.

Action: A listing of these cases and the addresses is attached. All cases, including closed ones, have the potential to contain contaminated soil or groundwater and could potentially be harmful to human health and the environment if disturbed. Appropriate references to the potential to encounter contaminated soil or groundwater or other regulated wastes should be included in construction specifications in the case that contaminated materials are encountered. Although not required, any boring or geotechnical reports done prior to construction would be helpful for potential bidders to determine costs associated with dewatering and/or contaminated soil/groundwater.

You are required to contact Joy Newman at Environmental Services Department (ESD), 858-573-1204, during design to help determine the appropriate consultations, investigations, and studies needed, if any. Phase I and Phase II studies are generally *only* required for property acquisitions or certain special funding requirements. Although not required, if there are any pre-construction soil tests or geotechnical work, this information should be shared with ESD and potential bidders. She can also assist with identifying appropriate references to the potential to encounter contaminated soil or groundwater or other regulated wastes in construction specifications.

### **Hazardous Materials**

The project may involve the removal or disturbance of hazardous or toxic substances (e.g. contaminated soil). Therefore, a Community Health and Safety Plan may be required.

Action: The PM should coordinate with Joy Newman at ESD, 858-573-1204, regarding inspection, handling and disposal of hazardous materials, and to determine whether or not a Community Health and Safety Plan would be required.

### **GEOLOGIC HAZARDS**

The project area is located within geologic hazard category zone 52 (ALL OTHER CONDITIONS: other level areas; gently sloping to steep terrain, favorable geologic structure low risk). It is assumed that any geologic hazard issues will be adequately addressed through appropriate engineering design.

### **FLOODPLAIN**

The project area is not located within the 100-year floodplain.

### **TRANSPORTATION / CIRCULATION / PARKING**

The project involves work that would impact the City right-of-way during construction.

Action: A Traffic Control Plan is required for any construction activity that would impact City right-of-way.

### **COMMUNITY PLANNING/COORDINATION ISSUES**

This project is consistent with the community plan guidelines for the Mid-City: Eastern Area (Council District 4).

### Moratoriums

There are no known moratoriums on the proposed project.

### ENVIRONMENTAL DETERMINATION (this may change following the design group's formal application submittal to DSD with more detailed project description information):

As proposed, the project would likely qualify for a categorical exemption pursuant to CEQA State Guidelines, Sections 15301 (Existing Facilities), 15302 (Replacement or Reconstruction), and 15304 (Minor Alterations to Land); and where the exceptions listed in Section 15300.2 would not apply.

### POSSIBLE PERMITS NEEDED

This project would not require a City Site Development Permit (SDP) or Coastal Development Permit (CDP).

### ENGINEERING/RIGHT-OF-WAY PERMIT

This project would not require a right-of entry/encroachment permit from another City Department.

### RESOURCE AGENCY PERMITS

Based on the current project plans and scope of work, there would be no jurisdictional impacts to water features, wetlands or endangered/threatened species. Therefore, no permits would be required from the Army Corps of Engineers (404 permit), U.S. Fish and Wildlife Service (10A), California Department of Fish and Wildlife (1602 Streambed Alteration Agreement), nor Regional Water Quality Control Board (401 Certification/Waiver).

### BUDGET AND TIMELINES

The following are ballpark figures to be used for Preliminary Engineering planning purposes.

Action	Cost (staff time)	Design Stage to Begin	Duration
CEQA exemption issuance	\$5K	30%	2 months

Studies/Monitoring/Outside agencies	Consultant Costs*	Begin ~ % Design	Duration
Hazardous Material Plan/Community Health and Safety Plan - Contractor hires	\$2-10 K each	Prior to construction	1-3 months
Hazardous material monitoring	\$10-50K (varies by size and construction days)	During construction	Plan for entire construction phase
WPCP – Contractor hires	\$2K	Prior to construction	1 week

If project plans or scope of work changes, this PEA would need to be reassessed for environmental and permitting requirements.

Please contact James Arnhart at (619) 533-5275 if you have any questions regarding the above information.

Attachment: Geotracker Site Listing Map  
Geotracker Site Listings  
PEA Request Form  
Location Map

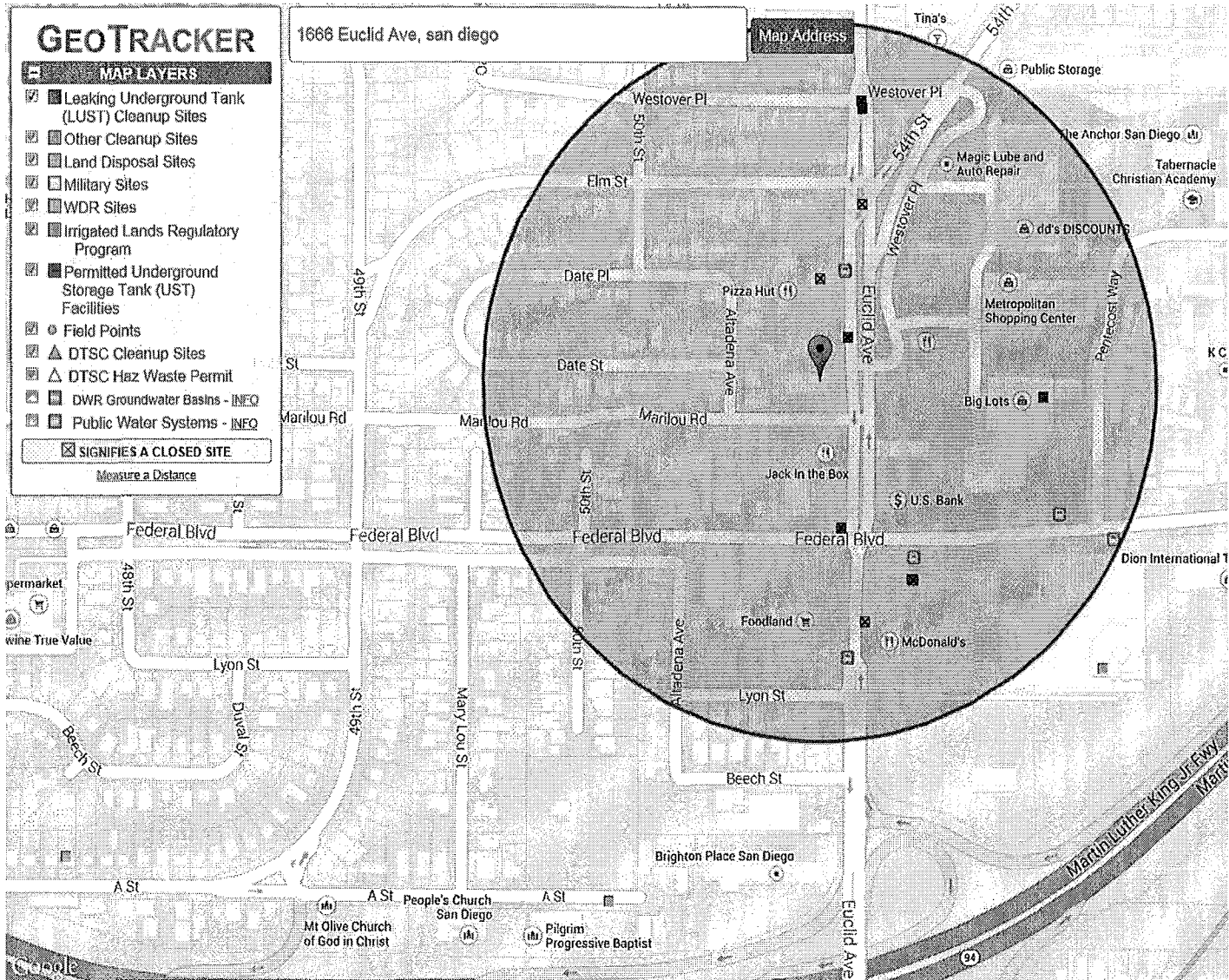
cc: Lori Takafugi, Assistant Civil Engineer, PI  
Virginia Oskoui, Assistant Civil Engineer, PI  
Joy Newman, Hazardous Materials Inspector III, ESD



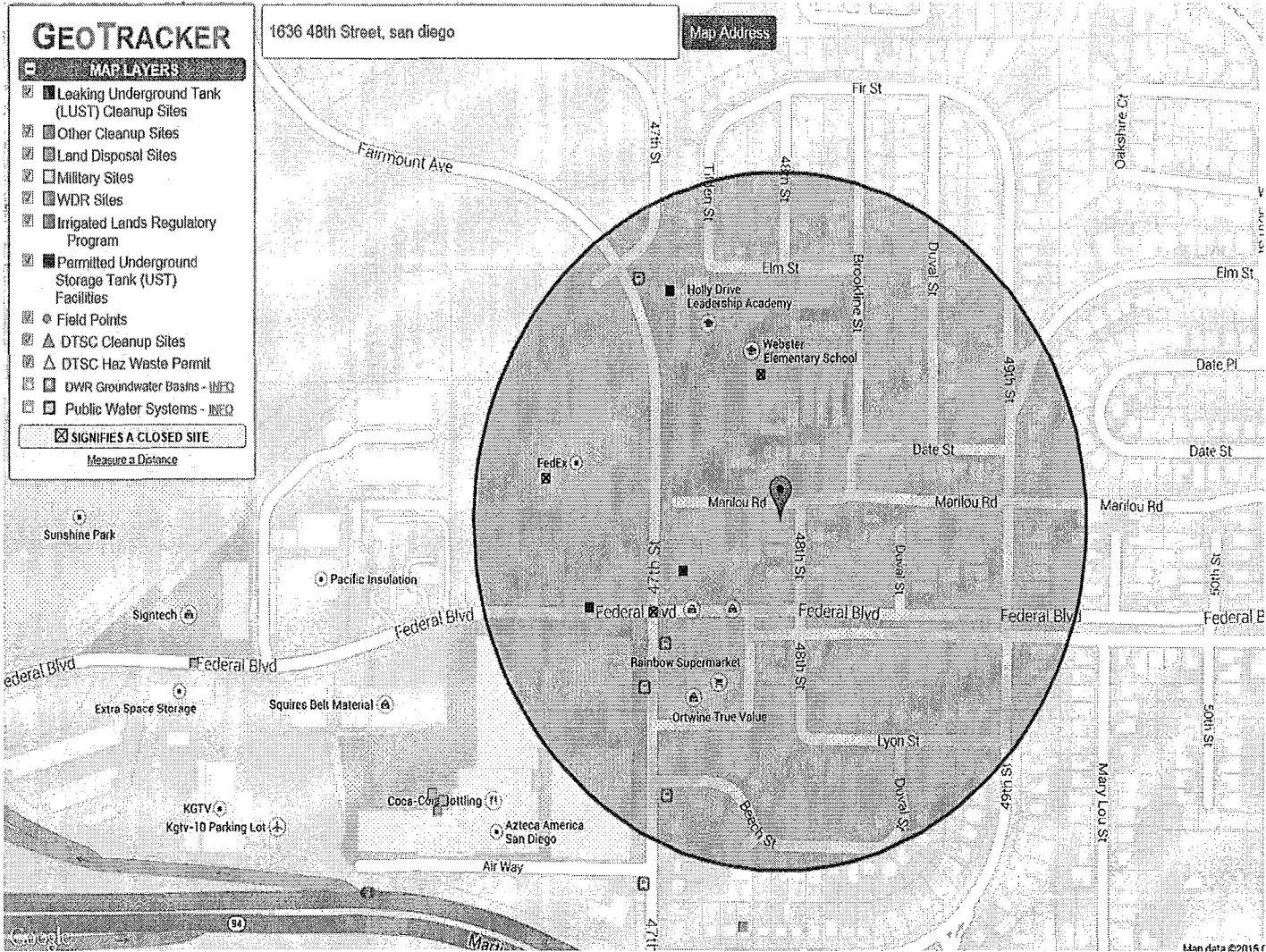
GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
T0607303055		COMPLETED - CASE CLOSED	1755 EUCLID AV	SAN DIEGO
T0607301657		COMPLETED - CASE CLOSED	1722 N EUCLID AV	SAN DIEGO
T0608129242		COMPLETED - CASE CLOSED	1722 N EUCLID AV	SAN DIEGO
	H21107		1817 EUCLID AVE # 1016	SAN DIEGO
T0607364392		COMPLETED - CASE CLOSED	1817 EUCLID AV	SAN DIEGO
T0608156491		COMPLETED - CASE CLOSED	1817 EUCLID AV	SAN DIEGO
	H13120		1561 EUCLID AVE	SAN DIEGO
T0608159500		COMPLETED - CASE CLOSED	1561 EUCLID AV	SAN DIEGO
T06019777827		COMPLETED - CASE CLOSED	1561 EUCLID AV	SAN DIEGO
T0607301729		COMPLETED - CASE CLOSED	1561 EUCLID AV	SAN DIEGO
T0607300626		COMPLETED - CASE CLOSED	5090 FEDERAL BL	SAN DIEGO

GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
	H04558		1348 47TH ST	SAN DIEGO
T0608181710		COMPLETED - CASE CLOSED	1650 47TH ST	SAN DIEGO
	H26515		1650 47TH ST	SAN DIEGO
T0607302541		COMPLETED - CASE CLOSED	4704 FEDERAL BL	SAN DIEGO
T10000001564		COMPLETED - CASE CLOSED	5090 FEDERAL BL	SAN DIEGO
L10007467529		COMPLETED - CASE CLOSED	4801 ELM	SAN DIEGO

# AC Water Group 1019 – Geotracker Map Listings

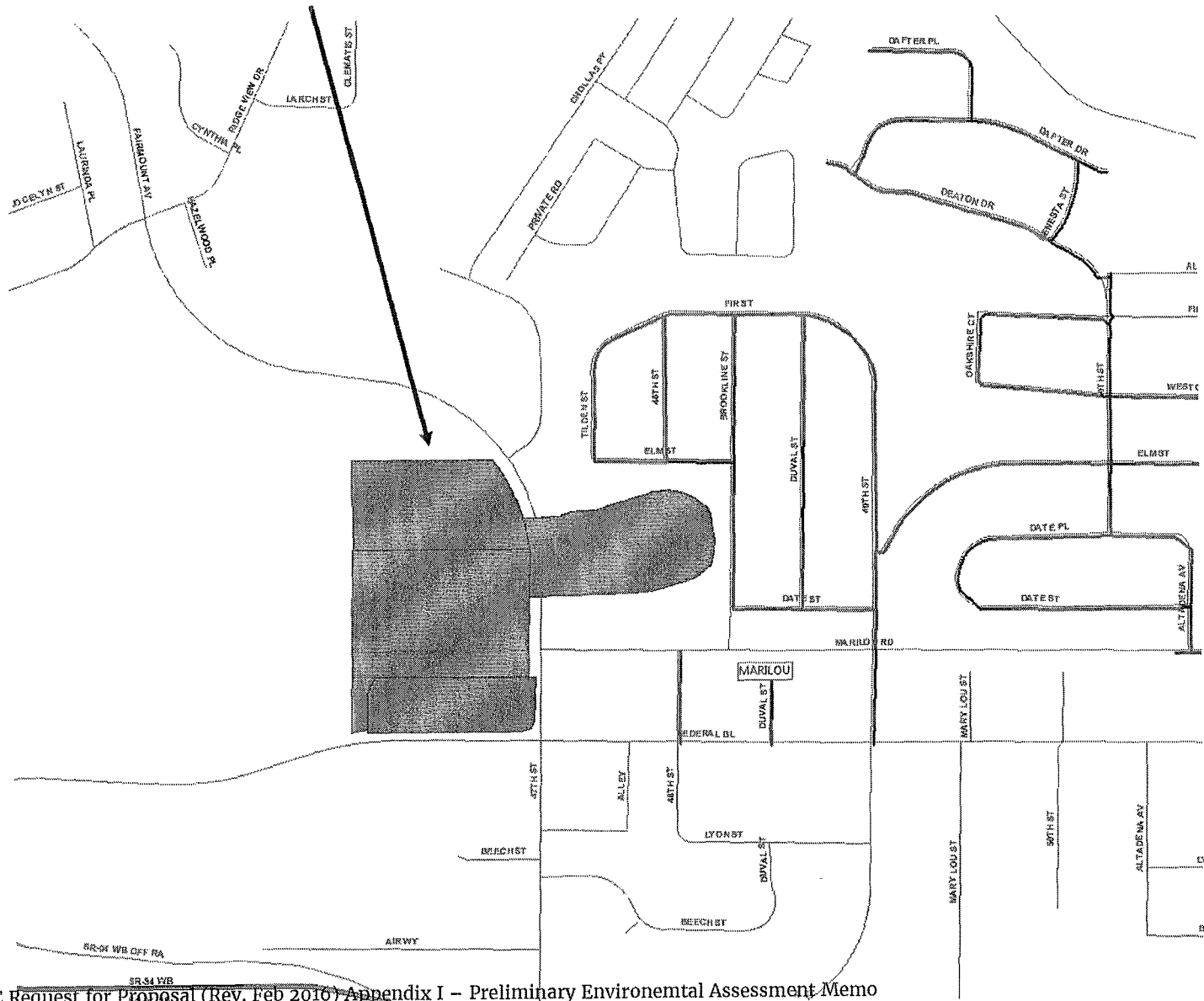


MACC Request for Proposal (Rev. Feb 2016) Appendix I – Preliminary Environmental Assessment Memo  
 AC Water Group 1019



MACC Request for Proposal (Rev. Feb 2016) Appendix I – Preliminary Environmental Assessment Memo  
 AC Water Group 1019

# LIMITS OF LANDFILL/BURN ASH SITE



PREDESIGN LOCATION MAP  
**AC WATER GROUP 1019**



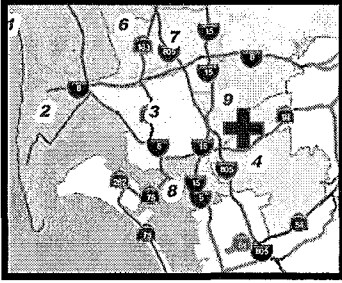
PROJECT IMPLEMENTATION DIVISION

PREDESIGN SENIOR ENGINEER  
 ALEX GARCIA  
 (619) 533-3634

PREDESIGN PROJECT MANAGER  
 TINA HUANG  
 (619) 533-3863

PREDESIGN PROJECT ENGINEER  
 VIRGINIA OSKOU  
 (619) 533-5162

PREDESIGN DRAFTER  
 TEDDY RAMOS  
 (619) 533-3734



**Legend**

AC Water Group 1019

MACC Request for Proposal (Rev. Feb 2016) Appendix P - Preliminary Environmental Assessment Memo  
 AC Water Group 1019



No Scale

Document Path: SAP\SPITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\Water & Sewer Projects\AC Water Projects\AC Water and Sewer Group 1019\CIP Tracking\Location Maps\Pre-design Location Map (11-4-2014).imxd

Community Name: Mid-City: Eastern Area

Council District: 4

SAP ID# TBD (W)  
 TBD (S)

Date: 11-5-2014



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY to SanGIS. This map is copyrighted.



THE CITY OF SAN DIEGO

## MEMORANDUM

DATE: December 24, 2014

TO: Carrie Purcell, Senior Planner, Environmental and Permitting Support

FROM: Tina Huang, Associate Engineer-Civil, CIP Preliminary Engineering and Program Coordination

**SUBJECT: Preliminary Environmental Assessment Request for AC Water Group 1019, WBS # Pending, Internal Order # 21003132**

---

### PROJECT DESCRIPTION

Project Manager: TBD (ROWD)

Senior Design Engineer: Luis Schaar (ROWD)

Actual, closest address or cross streets: (see attached location map)

- Dafter Place
- Dafter Drive
- Deaton Drive
- Genesta Street
- 50<sup>th</sup> Street
- Fir Street
- Oakshire Court
- Westover Place
- Elm Street
- Date Place
- Date Street
- Marilou Road
- 49<sup>th</sup> Street
- Duval Street
- 48<sup>th</sup> Street
- Tilden Street
- Brookline Street
- Federal Boulevard
- Euclid Avenue
- Altadena Avenue

Attach Project Map. Are there GIS files associated with the project? If so attach to an email or provide location of the GIS shape files on shared drive if available.

- Location map and shape files will be forwarded via email.

Please provide all details available on the project:

This project proposes to replace-in-place 6,628-LF of existing 8-inch asbestos cement (AC) water main and 10,181 LF of existing 6-inch asbestos cement (AC) water main with new 8-inch polyvinyl chloride (PVC) via open trench construction methods.

The project is located in the Mid-City: Eastern community area within Council District 4.

### **GROUND DISTURBANCE AREA**

Staging areas (sq. ft): N/A

Landscaping area (sq. ft.): N/A

Excavation area (sq. ft.): N/A

Excavation depth (ft.): N/A

New impervious areas (parking lots, sidewalks, streets, buildings) (sq. ft): N/A

### **TARGETTED CONSTRUCTION DATES**

Start date: June 2016 (NTP)

End date: February 2018 (NOC)

### **FUNDING**

Is federal funding involved? No

Is this a CBDG funded project? No

Is this a Transnet funded project? No

State revolving funds are used? No

Local funding? No

Other not listed? Please specify: Funds from Annual Allocations A-KB.00003 - Main Replacements.

### **PERMITS**

Are there any previous CEQA documents, agency permits obtained (if applicable) OR planning documents associated with the improvements or projects? No

If yes, describe and please request from client and attach.

### **OWNERSHIP**

Is the entire project in the City right-of-way or on City-owned land? Yes

If no, who owns the land (State, Federal, Private)?

### **HISTORICAL RESOURCES**

Are you proposing to demolish or alter an existing building, facility or public improvement that is considered historical or more than 45 years old? No

### **BIOLOGY/SENSITIVE AREAS**

Are you proposing to remove or alter any vegetation? No.



**TRENCHING FOR UTILITIES (water)**

New  Replace-In-Place

Existing Diameter of pipes: 8-inch

Existing Depth: 4 feet

Existing Length: 6,628 feet

Existing Width: 3 feet

Proposed Diameter of pipes: 8-inch

Proposed Depth: 4 feet

Proposed Length: 6,628 feet

Proposed Width: 3 feet

Abandonment Length: n/a

Existing Diameter of pipes: 6-inch

Existing Depth: 4 feet

Existing Length: 10,181 feet

Existing Width: 3 feet

Proposed Diameter of pipes: 8-in

Proposed Depth: 4 feet

Proposed Length: 10,181 feet

Proposed Width: 3 feet

Abandonment Length: n/a

Will there be new appurtenances or accessory structures associated with the project? (Boring pits, vaults, culverts, manholes, boxes, storm drain inlets, etc.) No

Is there an existing access road? Alignment is within City ROW  
If no, will one be created as part of the project?

**CITY REAL ESTATE ACTIVITIES**

Are there any real estate actions involved? (new lease, amended lease, property sale, right of entry permit, easement vacations, easements, dedications, etc.)? No

If yes, describe:

Desired Date of PEA (2 week minimum turnaround): January 12, 2015.

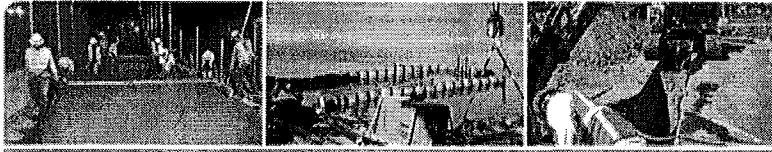
Should you require further information or clarification about this request, please contact Project Engineer Virginia Oskoui at 533-3020.

Tina Huang  
Associate Civil Engineer

LT

Attachments: Maps and Shape files via email

**APPENDIX J**  
**SAMPLE OF PUBLIC NOTICES**



# CONSTRUCTION NOTICE

## PROJECT NAME

### **Trenching on your street is complete.**

#### **What you need to know:**

- Pipe installation on your street is complete and construction crews are now installing new pipeline for this project at another location.
- You may see temporary trench plates or trench caps for some time –even after construction activities have concluded on your street.

#### **Street resurfacing:**

- Your Streets will be resurfaced once the entire pipeline project is complete.
- Concrete streets will not be resurfaced curb to curb; only the trench will be backfilled.
- Street resurfacing may be delayed due to the City's slurry seal moratorium.

#### **Estimated resurfacing completion on your street:**

(Insert Date-Month and Year)

**For questions related to this work**

**Call: (619) 533-4207**

**Email: [engineering@sandiego.gov](mailto:engineering@sandiego.gov)**

**Visit: [sandiego.gov/CIP](http://sandiego.gov/CIP)**



This information is available in alternative formats upon request.



**ATTACHMENT F**  
**INTENTIONALLY LEFT BLANK**

**ATTACHMENT G**

**PROPOSAL SUBMITTAL REQUIREMENTS AND SELECTION CRITERIA**

## ATTACHMENT G

### PROPOSAL SUBMITTAL REQUIREMENTS AND SELECTION CRITERIA

#### PUBLIC WORKS DEPARTMENT

1. **Addenda to the RFP (PASS/FAIL)**

- 1.1. The Design-Builder shall confirm the receipt of all addenda issued to this RFP. Failure to acknowledge all addenda issued, may result in the Proposal being considered **non-responsive** and ineligible for further consideration.
- 1.2. The Design-Builders are not required to include copies of the actual addenda in its Proposal.

2. **Exceptions to the RFP (PASS/FAIL)**

- 2.1. If the Design-Builder takes exception(s) to any portion of this RFP and its attachments, the specific portion of this RFP or attachment to which exception is taken shall be identified and explained to the City in writing a minimum of 10 Days prior to the date established for submittal of the Technical Proposal.
- 2.2. Exceptions taken after the stipulated period to this RFP may be cause for rejection of the Proposal as being **non-responsive**. The City reserves the right to waive exception(s) as it deems in the best interests of the City.

3. **Subcontracting Participation Percentages (PASS/FAIL)**

- 3.1. If the Design-Builder fails to meet the minimum subcontracting participation percentages, the Proposal will be considered **non-responsive** and rejected.

4. **Executive Summary (10 Points Max )**

- 4.1. Include a 1- to 2-page overview of the entire Proposal describing the highlights of the Proposal.

5. **Project Team (15 Points Max)**

- 5.1. Describe any changes to the key personnel identified as part of the SOQ. Describe the strength of key proposed construction and technical personnel, and Subcontractors assigned to the Project. Provide a list of subcontractors which were given the opportunity to form your project team.

6. **Technical Approach and Design Concept (35 Points Max)**

- 6.1. Describe specifically how Attachment A, Section 4.3. Supplemental Requirements will be implemented in particular item 4.3.2, work needed to accomplish the scope of work generally in accordance with the recommendations in the Planning Study and the Preliminary Engineering

Report. NOTE -Generic proposals not specifically applicable to this project and/or proposals which duplicate competitors' proposals verbatim may result in score deductions.

6.2. The following elements shall be included in the Technical Proposal:

- 6.2.1 Pipeline alignment, sizes and locations of appurtenances.
- 6.2.2 Traffic Control Approach - The Design-Builder shall describe its general approach to developing a traffic control and local access management plan (Traffic Control Plan).
- 6.2.3 Quality Assurance/Quality Control Plan (QA/QC Plan) - The Design-Builder shall submit a QA/QC Plan specifically developed for this Project. The Design-Builder's QA/QC Plan shall comply with the City's Quality Assurance/Quality Control Plan Guidelines (see attached Contract for Guidelines). The QA/QC Plan shall describe the tools, process, and resources the Design-Builder shall use to ensure that it provides facilities that meet the requirements of the Contract.
- 6.2.4 Paving Restoration.
- 6.2.5 Water highlining plan for each site
- 6.2.6 Phasing of design and construction work of each site separately
- 6.2.7 Curb Ramp Design and Installation plan pursuant to the Access Law Design Compliance Memorandum (part of the bridging documents) and highlight any Modification, if any.
- 6.2.8 Phasing and Coordination with Adjacent Projects
- 6.2.9 Storm Water Pollution Control Best Management Practices.
- 6.2.10 Subsurface Investigation and Geotechnical Work.
- 6.2.11 Proposed Design Schedule: Outline the proposed design schedule, including sequencing of each major design component (30%, 60%, 100%, Final Design) and proposed durations.
- 6.2.12 Estimate the following quantities amounts need to complete our entire project, per your proposed design and construction methods. Quantities will only be used to evaluate the Technical Portion of the RFP. The actual quantities will vary during the actual design and construction of the project:
  - 1) Additional Bedding - \_\_\_CY
  - 2) Imported Backfill - \_\_\_TON
  - 3) Asphalt Pavement Repair - \_\_\_SF

- 4) Additional Curb & Gutter - \_\_\_LF
- 5) Additional Sidewalk Removal & Replacement - \_\_\_SF
- 6) Additional Pavement Removal & Disposal - \_\_\_CY

**7. Construction Plan (40 Points Max)**

**7.1** Describe the proposed construction plan for this Project, including the following, at a minimum:

- 7.1.1** Construction approach and methods
- 7.1.2** Plan for operation of facility during construction
- 7.1.3** Plan for phasing of construction activities
- 7.1.4** General plan for functional testing and start-up.
- 7.1.5** Proposed safety program
- 7.1.6** Proposed emergency response plan
- 7.1.7** Water highlining plan for each site
- 7.1.8** Phasing of design and construction work of each site separately
- 7.1.9** Proposed construction schedule
- 7.1.10** Traffic Control Management
- 7.1.11** Community Impact

**7.2** Project Coordination - The Design-Builder shall identify the following:

- 7.2.1** The processes and procedures it will use to ensure that all Work is properly coordinated.
- 7.2.2** The design and construction coordination requirements with governmental entities and agencies, utilities, Underground Service Alert, City forces, and all other persons or entities involved in infrastructure improvements or otherwise affected by Project design and construction requirements.
- 7.2.3** The design coordination system between drawings and specifications and disciplines.
- 7.2.4** The system for tracking questions and responses.
- 7.2.5** The system for coordinating work among subcontractors and equipment manufacturers.



- 7.3 Critical Path Schedule - The RFP requires the Design-Builder to complete the Project within a certain number of Working Days. The Design-Builder shall include a summary level critical path method (CPM) schedule in the form of a bar chart that identifies all Project milestones set forth in this RFP, including its Attachments such as additional tasks or milestones, as well as all critical activities the Design-Builder anticipates performing and coordinating with others to complete the Project. The Design-Builder shall include with the schedule a narrative explaining detailed procedures for ensuring all Project milestones are met. Proposals that show valid means to reduce the duration of the Project may be given favorable consideration if they demonstrate realistic activity durations and no increase in Project cost.
- 7.4 Challenges/Issues - Identify what your team believes to be the largest challenges associated with this Project. Describe how your team has overcome similar challenges on a previous Project your team has participated in. Proposals shall describe the Design-Builder's understanding of the design and technical issues involved in the Project, including those related to design review, value engineering, proposals, general contracting, schedule, site mobilization, constructability, construction sequencing, quality control, code compliance, and cost containment.
- 7.5 Describe any cost saving measures, not included in your proposal that the City of San Diego Team should consider, and the Design-Builder is willing to implement. For each recommendation, the percentage of your price proposal or time would be saved.
- 7.6 Community Outreach and Public Relations Program - The Design-Builder shall describe its general approach to building relations between the Design-Builder and the community, including how the Design-Builder will provide effective public information and respond to public concerns. The Design-Builder shall work cooperatively with the City's team and creatively integrate the needs of the community into the design of the Project.
- 7.7 Community Coordination - Due to the summer moratoriums, how do you plan to phase the project and keep the community informed?
- 7.8 Staging Area and project cleanup - What is your plan for staging area and project cleanup (during construction and moratorium phases) to minimize residents and visitors concerns?
- 7.9 Residents and Visitors - how will traffic and bus stops be impacted? How will you minimize the impacts?
- 7.10 Construction mitigation plan to minimize impacts to local businesses (i.e. impacts the business access and parking)

**Total Points: 100**

Proposals that do not contain the aforementioned components may be rejected as **non-responsive**. The Design-Builder's information and Proposal details provided during the Q&A meeting will be part of the Proposal evaluation and failure to attend the meeting will determine the proposal to be **non-responsive**.

**8. Review of Technical Proposal**

- 8.1. Following the receipt of the Technical Proposal, the City anticipates allotting 2 weeks for review of the Technical Proposals.
- 8.2. Presentations will not be required.

**9. Final Selection Based on Adjusted Low Proposal**

- 9.1. The ranking of each Design-Builder during the Technical Proposal review will serve as the divisor of the Price Proposal and determine the weighted price.
- 9.2. Following review of the Technical Proposals, the resulting qualitative evaluation scores will be totaled, averaged, and converted to a decimal. The Proposal price will then be divided by the scores from the Technical Proposals. This becomes the Adjusted Low Proposal. The lowest adjusted proposal will be recommended for contract award. The adjustment to the Price Proposal is for selection purposes only. The Price Proposal as submitted is the actual Contract Price.
- 9.3. The following example illustrates the process:

Design-Builder	Qualitative Score (100 Maximum)	Price Proposal	Adjusted Price *
A	0.85	\$1,000,000.00	\$1,176,471
B	0.95	\$1,300,000.00	\$1,368,421
C	0.65	\$900,000.00	\$1,384,615
*The adjustment to the Proposal is for selection only. Firm "A" has Adjusted Lowest Proposal. The Price Proposal is the actual Contract amount.			

**ATTACHMENT H**  
**PRICE PROPOSAL FORMS**

PRICE PROPOSAL FORMS

PROPOSAL

The Design-Bidder agrees to the design and construction of AC Water Group 1019, for the City of San Diego, in accordance with these contract documents for the prices listed below.

Item No.	NAICS CODE	Description	Quantity	D*	Unit	Unit Price	Extension
1.	541330	Engineering and Design Services	1	D	LS	<del>                    </del>	\$350,000.-
2.	237110	Field Construction	1		LS	<del>                    </del>	\$5,465,000.-
3.		City Contingency	1		AL	\$220,000.00	\$220,000.00
TOTAL FOR PROPOSAL (ITEMS NO 1 THROUGH 3 INCLUSIVE):							\$5,975,000.-

\* Design Element (For City Use)

TOTAL BID PRICE FOR BID (Items 1 through 3 inclusive) amount written in words:

FIVE MILLION NINE HUNDRED SEVENTY FIVE THOUSAND DOLLARS AND <sup>50</sup>/<sub>100</sub> -

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: GHD Address: 3750 Convoy Street, #220 City: San Diego State: CA Zip: 92111 Phone: (858) 244-0440 Email:	Designer	N/A	Civil Design	\$196,000.00	OBE	N/A	
Name: Robcar DBA Hudson Safe-T-Lite Address: 777 Gable Way, PO Box 117 City: El Cajon State: CA Zip: 92022-0117 Phone: (619) 441-3644 Email:	Designer	N/A	Traffic Control Plans	\$8,750.00	SLBE	City	

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**PRICE PROPOSAL FORMS**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Land Surveying Consultants Address: 318 State Place City: Escondido State: CA Zip: 92029 Phone: (760) 738-8804 Email:	Designer	N/A	Survey	\$21,600.00	SLBE	City	
Name: AIRX Utility Surveyors Address: 2534 E El Norte Parkway City: Escondido State: CA Zip: 92027 Phone: (760) 480-2347 Email:	Designer	N/A	Design Potholing	\$35,000.00	SLBE	City	

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSBO	WHERE CERTIFIED ☉	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Humanability Address: 1025 Birch Avenue City: Escondido State: CA Zip: 92027 Phone: (760) 580-4630 Email:	Designer	N/A	Community Relations Plan	\$3,000.00	ELBE	City	
Name: Southern California Soil & Testing Address: 6280 Riverdale Street City: San Diego State: CA Zip: 92120 Phone: (619) 280-4321 Email:	Designer	N/A	Geotechnical Investigation	\$6,000.00	DVBE	CADoGs	

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.**

**DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Miramar General Engineering</u> Address: <u>8400 Miramar Road, Ste. 222A</u> City: <u>San Diego</u> State: <u>CA</u> Zip: <u>92126</u> Phone: <u>(619) 271-6122</u> Email: _____	Constructor	1009541	Pedestrian Ramps	\$279,000.00	ELBE	City	
Name: <u>G. Scott Asphalt</u> Address: <u>358 Trousdale Drive</u> City: <u>Chula Vista</u> State: <u>CA</u> Zip: <u>91910-1045</u> Phone: <u>(619) 420-1854</u> Email: _____	Constructor	751836	Slurry Seal	\$80,000.00	SLBE	City	

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Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

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City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

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Name: Southwest Signal Service Address: 397 Raleigh Avenue City: El Cajon State: CA Zip: 92020 Phone: (619) 442-3343 Email:	Constructor	451115	Traffic Loops and Signals	\$27,000.00	SLBE	City	
Name: LSI Road Marking Address: PO Box 2426 City: El Cajon State: CA Zip: 92021 Phone: (619) 443-7755 Email:	Constructor	775886	Pavement Markings	\$34,000.00	SLBE	City	

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- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

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- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

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Name: Humanability Address: 1025 Birch Avenue City: Escondido State: CA Zip: 92027 Phone: (760) 580-4630 Email:	Constructor	N/A	Community Outreach	\$20,000.00	ELBE	City	
Name: Underground Pipeline Solutions, Inc. Address: P.O. Box 145 City: Alpine State: CA Zip: 91903 Phone: (619) 964-2276 Email:	Constructor	956807	Portions of Water	\$618,000.00	ELBE	City	

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- |   |        |  |         |
|---|--------|--|---------|
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| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

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- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

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Name: Brownlow Enterprises Address: PO Box 34 City: Lakeside State: CA Zip: 92040 Phone: (619) 561-9693 Email:	Constructor	N/A	Portions of Trucking	\$105,000.00	ELBE	City	
Name: Valor Constructors, Inc. Address: 270-N El Camino Real, #385 City: Encinitas State: CA Zip: 92024 Phone: (866) 496-1959 Email:	Constructor	991120	Portions of Site Repairs	\$89,000.00	SLBE	City	

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- |   |        |  |         |
|---|--------|--|---------|
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| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

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|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

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Name: Sealright Paving Address: 9053 Olive Drive City: Spring Valley State: CA Zip: 91977 Phone: (619) 465-7411 Email:	Constructor	364113	Portions of A.C. Paving	\$150,000.00	OBE	N/A	
Name: Address: City: State: Zip: Phone: Email:							

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- |   |        |  |         |
|---|--------|--|---------|
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| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

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## **ATTACHMENT I**

### **CERTIFICATIONS AND FORMS**

**The Proposer, by submitting its electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this bid are true and correct.**

Design-Build Proposal

1. The undersigned The Design-Builder proposes and agrees, if this Proposal is accepted, to enter into an agreement with the City in the form included in the Contract Documents to perform the Work as specified or indicated in said Contract Documents entitled AC Water Group 1019.
2. The Design-Builder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the RFP.
3. This Proposal will remain open for the period stated in the RFP unless otherwise required by law. The Design-Builder will enter into an agreement within the time and in the manner required in the RFP and will furnish the insurance certificates, Payment Bond, and Performance Bond required by the Contract Documents.
4. The Design-Builder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as The Design-Builder deems necessary.

To all the foregoing, and including all Proposal schedule(s) and information required of the Design-Builder contained in this Proposal Form, said The Design-Builder further agrees to complete the Work and Services required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the Total Proposal Price(s) named in the aforementioned Proposal schedule(s).

Dated: 5/12/16

The Design-Builder: Orion Construction Corp. / Balboa Construction Inc. J.V.

By:   
(Signature)

Title: Pres. / Orion Pres. / Balboa

## PROPOSAL

### Design-Builder's General Information

To the City of San Diego:

Pursuant to the "Request for Proposal", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the proposal price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the proposal price, or of that of any other proposer, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the proposal are true; and, further, that the proposer has not, directly or indirectly, submitted his or her proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal. The undersigned proposer(s) further warrants that proposer(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Proposal Documents therefore, and that by submitting said Proposal Documents as its proposal, proposer(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Proposal Documents.

**IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:**

- (1) Name under which business is conducted \_\_\_\_\_
- (2) Signature (Given and surname) of proprietor \_\_\_\_\_
- (3) Place of Business (Street & Number) \_\_\_\_\_
- (4) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_
- (5) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_
- (6) Email Address \_\_\_\_\_

**IF A PARTNERSHIP, SIGN HERE:**

(1) Name under which business is conducted \_\_\_\_\_

(2) Name of each member of partnership, indicate character of each partner, general or special (limited):  
\_\_\_\_\_  
\_\_\_\_\_

(3) Signature (Note: Signature must be made by a general partner)  
\_\_\_\_\_

Full Name and Character of partner  
\_\_\_\_\_  
\_\_\_\_\_

(4) Place of Business (Street & Number) \_\_\_\_\_

(5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

(6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

(7) Email Address \_\_\_\_\_

**IF A CORPORATION, SIGN HERE:**

(1) Name under which business is conducted Orion Construction Corp. / Balboa Construction Inc. J.V.

(2) Signature, with official title of officer authorized to sign for the corporation:

 /   
(Signature)

Richard Dowling Fia Dowling  
(Printed Name)

Pres. / Orion Pres. / Balboa  
(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of California

(4) Place of Business (Street & Number) 2185 La Mirada Dr.



(5) City and State Victa, CA Zip Code 92081  
(6) Telephone No. (760) 597-9660 Facsimile No. (760) 597-9661  
(7) Email Address Richard@orionconstruction.com

**THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:**

In accordance with the "Request for Proposal", the proposer holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A-4B

LICENSE NO. 788132 EXPIRES 11/30/2016

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000015426

This license classification must also be shown on the front of the proposal envelope. Failure to show license classification on the proposal envelope may cause return of the proposal unopened.

TAX IDENTIFICATION NUMBER (TIN): [REDACTED]

E-Mail Address: Richard@orionconstruction.com

**THIS PROPOSAL MUST BE NOTARIZED BELOW:**

I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

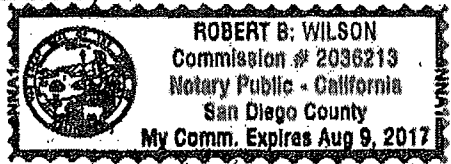
Signature [Signature] Title Pres./Orion Pres./Balboa

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 12 DAY OF May, 2016

Notary Public in and for the County of San Diego, State of California

[Signature]

(NOTARIAL SEAL)



**PERFORMANCE BOND AND LABOR AND MATERIAL MEN'S BOND**

---

**FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:**

**Orion Construction Corp./Balboa Construction, Inc. J.V.**, a corporation, as principal, and **Western Surety Company**, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to **The City of San Diego** a municipal corporation in the sum of **Five Million Nine Hundred Seventy-Five Thousand Dollars and .00/100 (\$5,975,000.00)**, for the faithful performance of the annexed contract, and in the sum of **Five Million Nine Hundred Seventy-Five Thousand Dollars and .00/100 (\$5,975,000.00)**, for the benefit of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract **AC Water Group 1019**, RFP Number **K-16-1400-MAC-3**, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND (Cont.)**

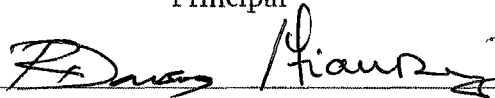
The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated June 6, 2016

Approved as to Form

Orion Construction/Balboa Construction JV


Principal

By 

Richard Dowsing, President / Fia Dowsing, President

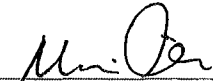
Printed Name of Person Signing for  
Principal



Jan I. Goldsmith, City Attorney

By   
Deputy City Attorney

Western Surety Company

Surety

By   
Maria Gulse, Attorney-in-fact

Approved:  
  
By   
Albert P. Rechany  
Deputy Director, Public Works  
Contracts

1455 Frazee Road, Suite 300

Local Address of Surety

San Diego, CA 92108

Local Address (City, State) of Surety

(619) 682-3510

Local Telephone No. of Surety

Premium \$44,100.00

Premium is for contract term and subject to adjustment based on final contract price.

Bond No. 58737193

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California )  
County of Orange )

On JUN 06 2016 before me, LeKim H. Luu, Notary Public  
*Date Here Insert Name and Title of the Officer*  
personally appeared Maria Guise  
*Name(s) of Signer(s)*

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(~~ies~~), and that by ~~his~~/her/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature *R*  
*Signature of Notary Public*

*Place Notary Seal Above*

**OPTIONAL**

*Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.*

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_ Document Date: \_\_\_\_\_  
Number of Pages: \_\_\_\_\_ Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Michael D Parizino, Rhonda C Abel, James A Schaller, Jeri Apodaca, Maria Guise, Rachelle Rheault, Kim Luu, Individually**

of Newport Beach, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 7th day of January, 2016.

WESTERN SURETY COMPANY



*Paul T. Brufat*  
Paul T. Brufat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 7th day of January, 2016, before me personally came Paul T. Brufat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires  
June 23, 2021



*J. Mohr*  
J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this \_\_\_\_\_ day of JUN 06 2016, \_\_\_\_\_.



WESTERN SURETY COMPANY

*L. Nelson*  
L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY PROPOSER AND SUBMITTED WITH PROPOSAL UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California )  
County of San Diego ) ss.

Richard Dowling and Fia Dowling, being first duly sworn, deposes and says that he or she is President of the party making the foregoing proposal that the proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the proposal price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the proposal price, or of that of any other proposer, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the proposal are true; and further, that the proposer has not, directly or indirectly, submitted his or her proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal.

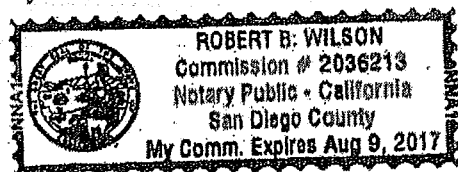
Signed: [Signature] / [Signature]

Title: Pres./Orion Pres./Balboa

Subscribed and sworn to before me this 12 day of May, 2016

[Signature]  
Notary Public

(SEAL)



### CONTRACTORS CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

**CHECK ONE BOX ONLY.**

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
  
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Orion Construction Corp. / Balboa Construction Inc. J.V.  
 Certified By Richard Dowling + Fia Dowling Title Pres./Orion + Pres./Balboa  
 Name Richard Dowling / Fia Dowling Date 5/12/16  
 Signature

**USE ADDITIONAL FORMS AS NECESSARY**



## CONTRACTOR CERTIFICATION

---

### DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

This company has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

## CONTRACTOR CERTIFICATION

---

### AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "California Building Code, California Code of Regulations Title 24 and Americans with Disabilities Act", of the project specifications, and that;

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

## CONTRACTOR CERTIFICATION

---

### CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards and Pledge of Compliance"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than \$50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

**AFFIDAVIT OF DISPOSAL**

**(To be submitted upon completion of Construction pursuant to the contracts Certificate of completion)**

WHEREAS, on the \_\_\_\_\_ DAY OF \_\_\_\_\_, 2\_\_\_\_\_,  
the undersigned entered into and executed a contract with the City of San Diego, a  
municipal corporation, for:

**AC Water Group 1019**  
\_\_\_\_\_  
(Name of Project)

as particularly described in said contract and identified as Bid No. **K-16-1400-MAC-3**; SAP  
No. (WBS/IO/CC) **B-15112**; and WHEREAS, the specification of said contract requires the  
Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from  
this project have been disposed of in a legal manner"; and WHEREAS, said contract has  
been completed and all surplus materials disposed of:

\_\_\_\_\_  
\_\_\_\_\_  
**NOW, THEREFORE**, in consideration of the final payment by the City of San Diego to said  
Contractor under the terms of said contract, the undersigned Contractor, does hereby  
affirm that all surplus materials as described in said contract have been disposed of at the  
following location(s)

\_\_\_\_\_  
\_\_\_\_\_  
and that they have been disposed of according to all applicable laws and regulations.

Dated this \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Contractor  
by

**ATTEST:**

State of \_\_\_\_\_ County of \_\_\_\_\_

On this \_\_\_\_\_ DAY OF \_\_\_\_\_, 2\_\_\_\_\_, before the undersigned, a Notary  
Public in and for said County and State, duly commissioned and sworn, personally  
appeared \_\_\_\_\_ known to me to be the \_\_\_\_\_  
Contractor named in the foregoing Release, and whose name is  
subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

**EQUAL BENEFITS ORDINANCE  
CERTIFICATION OF COMPLIANCE**



For additional information, contact:  
CITY OF SAN DIEGO  
EQUAL BENEFITS PROGRAM  
202 C Street, MS 9A, San Diego, CA 92101  
Phone (619) 533-3948 Fax (619) 533-3220

**COMPANY INFORMATION**

Company Name: Orion Construction / Balboa J.V. Contact Name: Robert B. Wilson  
Company Address: 2185 La Mirada Drive Contact Phone: (760) 597-9660  
Vista, CA 92081 Contact Email: Rob@OrionConstruction.com

**CONTRACT INFORMATION**

Contract Title: AC Water Group 1019 Start Date: 7/2016  
Contract Number (if no number, state location): K-16-1400-MAC-3 End Date: 12/2017

**SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS**

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
  - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
  - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at [www.sandiego.gov/administration](http://www.sandiego.gov/administration).

**CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION**

Please indicate your firm's compliance status with the EBO. The City may request supporting documentation.

- I affirm compliance with the EBO because my firm (*contractor must select one reason*):
- Provides equal benefits to spouses and domestic partners.
  - Provides no benefits to spouses or domestic partners.
  - Has no employees.
  - Has collective bargaining agreement(s) in place prior to January 1, 2011, that has not been renewed or expired.

I request the City's approval to pay affected employees a cash equivalent in lieu of equal benefits and verify my firm made a reasonable effort but is not able to provide equal benefits upon contract award. I agree to notify employees of the availability of a cash equivalent for benefits available to spouses but not domestic partners and to continue to make every reasonable effort to extend all available benefits to domestic partners.

It is unlawful for any contractor to knowingly submit any false information to the City regarding equal benefits or cash equivalent associated with the execution, award, amendment, or administration of any contract. [San Diego Municipal Code §22.4307(a)]

Under penalty of perjury under laws of the State of California, I certify the above information is true and correct. I further certify that my firm understands the requirements of the Equal Benefits Ordinance and will provide and maintain equal benefits for the duration of the contract or pay a cash equivalent if authorized by the City.

Richard D. / Pres. Fia D. / Pres. [Signature] 5/12/16  
Name/Title of Signatory Signature Date

**FOR OFFICIAL CITY USE ONLY**

Receipt Date: \_\_\_\_\_ EBO Analyst: \_\_\_\_\_  Approved  Not Approved - Reason: \_\_\_\_\_

(Rev 02/15/2011)

**ATTACHMENT J**

**MACC TASK ORDER: DESIGN-BUILD AGREEMENT**

## MACC TASK ORDER AGREEMENT

This Design-Build agreement [Contract] is made and entered into this \_\_\_\_ day of \_\_\_\_, 2016, by and between The City of San Diego [City], a municipal corporation, and **Orion Construction Corp./Balboa Construction JV** [Design-Builder], for the purpose of designing and constructing the **AC Water Group 1019** (Project) in the amount of **Five Million Nine Hundred Seventy-Five Thousand Dollars and .00/100 (\$5,975,000.00)**. The City and Design-Builder are referred to herein as the "Parties".

### RECITALS

- A. The City desires to construct the Project located in the City of San Diego, California.
- B. The City desires to contract with a single entity for design and construction of the Project, as set forth in this Agreement.
- C. The City has issued Request for Proposal (RFP) number **K-16-1400-MAC-3** for **AC Water Group 1019**, pursuant to which the City solicited Proposals from design-build teams to design, rehabilitate, and build the Project.
- D. In accordance with City's RFP, Design-Builder submitted a Proposal for the Project and is prepared to enter into this Agreement.
- E. The City has selected the Design-Builder to perform, either directly or pursuant to Subcontracts, hereinafter defined, the design, engineering, and construction services set forth in this Agreement and the Contract Documents, hereinafter defined.
- F. The Design-Builder is ready, willing, and able to perform the services required in accordance with the terms and conditions of this Agreement.
- G. Execution of this Agreement by the Design-Builder is a representation that the Design-Builder has visited the Site, become familiar with the local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

In consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows.

### AGREEMENT

- A. **Recitals and Attachments.** The above referenced recitals are true and correct and are incorporated into this Agreement by this reference. All attachments referenced in this Agreement section are incorporated into the Contract by this reference.
- B. **Contract Performance.** The Design-Builder shall design and construct the Project in a good and workmanlike manner to the satisfaction of the City, lien free and in compliance with the Contract Documents and within the time specified, in return for timely payment by the City in accordance with the Contract.
- C. **Attachments.** All attachments e.g., Reference Standards in the RFP, Supplementary Special Provisions (SSP), the attached Faithful Performance and Payment Bonds, Agreement and Supplemental Agreements, and the attached Proposal included in

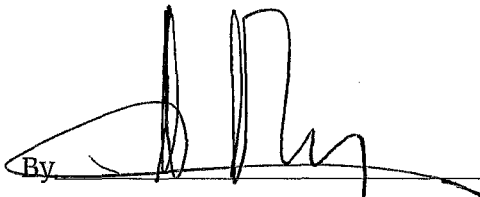
the Proposal documents by the Contractor are incorporated into the Contract by this reference.

- D. Contract Documents. This Contract incorporates the 2015 Edition of the Standard Specifications for Public Works Construction [The GREENBOOK], including amendments set forth in the 2015 edition of the San Diego Specifications for Public Works Construction [The WHITEBOOK]. The Contract Documents shall include the items mentioned in General Provisions (C) section 2-5.2 of The WHITEBOOK and shall follow that order of precedence.

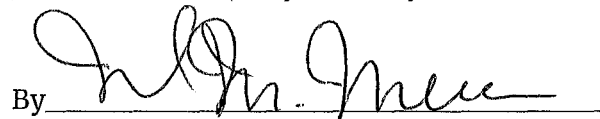
**IN WITNESS WHEREOF**, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Resolution No. R - \_\_\_\_\_ or Municipal Code \_\_\_\_\_ authorizing such execution.

**THE CITY OF SAN DIEGO**

**APPROVED AS TO FORM**

By 

Jan I. Goldsmith, City Attorney

By 

Print Name: Albert P. Rechany,  
Director, Public Works Contracts

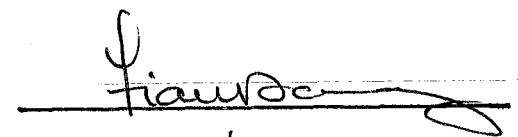
Print Name: Mark W. Placer  
Deputy City Attorney

Date: 6/13/16

Date: 6/15/16

**CONTRACTOR**

By 



Print Name: Richard Dowsing

Fia Dowsing

Title: President / Orion

President / Balboa

Date: 6/6/16

City of San Diego License No.: Orion: B1992002970  
Balboa: B1998008128

State Contractor's License No.: 788132



# City of San Diego

CITY CONTACT: Clementina Giordano, Contract Specialist, Email: Cgiordano@sandiego.gov  
Phone No. (619) 533-3481, Fax No. (619) 533-3633

## ADDENDUM "1"

## REQUEST FOR PROPOSAL (RFP)



## FOR

MACC TASK NUMBER: 03

## AC Water Group 1019

RFQ NO.: 1293  
RFP NO.: K-16-1400-MAC-3  
SAP NO. (WBS/IO/CC): B-15112  
CLIENT DEPARTMENT: 2013  
COUNCIL DISTRICT: 4  
PROJECT TYPE: KA

### PROPOSAL DUE:

12:00 NOON  
MAY 12, 2016  
CITY OF SAN DIEGO  
PUBLIC WORKS CONTRACTS  
1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C  
SAN DIEGO, CA 92101

**A. CHANGES TO CONTRACT DOCUMENTS**

The following changes to the RFP are hereby made effective as though originally issued with the RFP. The Design-Builders are reminded that all previous requirements to this solicitation remain in full force and effect.

**THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN EXTENDED AS STATED ON THE COVER PAGE.**

**B. BIDDER'S QUESTIONS**

Q1. Current Bid date is Monday May 9, 2016. Monday's are difficult to submit a bid. Please move bid day to any other day than Monday.

A1. Has been answered.

Q2. Page 21, Section 2.7.9 states that the Design Builder is responsible for "AC Overlay for all streets". However, the preliminary engineering report included in the Bridging Documents (Section 3.2.1) states that "if the street is rated fair or acceptable, slurry seal will be applied.: It further states that if a street is rated poor and only impacts the street with one trench, the street is to be paved later by the Street Division and not by this contract. The OCI Index Map shows most streets as fair or acceptable, and a few streets rated as poor. Therefore, we assume that those rated as fair or acceptable will receive slurry seal and those rated poor will receive an overlay later outside of this contract.

A.2. Correct. Also we are providing an updated Supplemental Information to existing OCI Index as part of Bridging Documents. The Bridging Documents can be found at the link below:

<ftp://ftp.sannet.gov/OUT/AC%20Water%201019/>

Q3. There are some streets on the OCI Index Map that are not rated. Please provide rating for these streets so that we can determine the type of street resurfacing necessary.

A3. An updated Supplemental Information to existing OCI Index has been provided as part of the Bridging Documents.

Q4. Section 21-City Services. In the previous projects, the City has been responsible for construction survey. Section 3 (City Services) does not list construction survey as one of the City's responsibilities. Please confirm the City will not provide construction survey for this project.

A4. Confirmed. The City will only perform Monument Preservation. The letter will be included in the Bridging Documents.

Q5. The photos in the ADA Compliance Memorandum show driveways highlighted in red at several locations. Is it the intent to install new driveways at these locations or is this just provided for information?

A5. Just for information.

- Q6. Page 11 of the ADA Compliance Memo states that "UUP4J1 Project (Undergrounding Utilities program) is scheduled to remove power poles and install curb ramps in certain locations within the AC Water Group 1019 Project area." Please identify the quantity and locations of the ramps that will be constructed under the UUP4J1 project.
- A6. The curb ramp installation and street resurfacing for UUP4J1 Project is scheduled end of 2018. Based on their note, AC Water Group 1019 will do the paving which means it is behind UUP4J1 Project. Since AC Water 1019 is going ahead of the plan, then within the overlapping area, we need to do the ramps (unless wooden pole is in conflict) and leave the paving for UUP4J1 to finish.
- Q7. Has the City collected any record drawings? If yes, will these record drawings be provided to the Design-Builder?
- A7. We do have some and it is set on the FTP site. One thing for the SDG&E areas, the existing record drawings are for the above ground utilities and since now it is underground then those records are not valid.
- Q8. Fire Services are located at Webster Elementary School. Please clarify limits of work (Property Line, Replacement of Backflow, or Reconnect at Tee) and any upsizing that may needed to take place.
- A8. Refer to City Standard Drawing Number SDW-105. This is for Fire Services 4" and larger. A Backflow Preventer (RPDA) should be installed on the private property side.

James Nagelvoort, Director  
Public Works Department

Dated: *May 2, 2016*  
San Diego, California

JN/AR/egz



The City of

# San Diego



REQUEST FOR PROPOSAL FOR MACC TASK NUMBER: 03

## AC Water Group 1019

Proposal No: K-16-1400-MAC-3

May 12, 2016





## Proposal

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### **Prime Contractor**

Orion Construction Corp./Balboa  
Construction, Inc. J.V.  
Legal Form: Joint Venture  
Parent Company: N/A  
2185 La Mirada Drive  
Vista, CA 92081  
Contact: Rob Wilson, Vice President  
Email: Rob@orionconstruction.com  
Phone: (760) 597-9660  
Contractor License: #788132, Class A, B  
Expires: 11/30/2016  
Licensed Since: 11/30/2000  
85 employees in SD County

### **Design Partner**

GHD Inc.  
3750 Convoy St, Suite 200  
San Diego, CA 92111  
Contact: David Holman PE  
Project Manager  
Email: david.holman@ghd.com  
Phone: (858) 244-0440  
California RCE #80164  
Expires: 09/30/2016  
Office in San Diego County 15 Years  
10 employees in SD County  
City License #B2012013164

### **Joint Venture Contractor**

Orion Construction Corporation  
2185 La Mirada Drive  
Vista, CA 92081  
29 years in SD County  
64 employees in SD County  
Contact: Richard Dowsing, President  
Email: Richard@orionconstruction.com  
Phone: (760) 597-9660  
Contractor License: #549309, Class A, B, C-  
27, HAZMAT, Asbestos  
Expires: 11/30/2016  
City Business License #B1992002970

### **Joint Venture Contractor**

Balboa Construction, Inc.  
2647 Gateway Road Suite 105, #395  
Carlsbad, CA 92009  
Contact: Fia Dowsing  
Email: fia@balboaconstruction.com  
Phone: (760) 598-2160  
Contractor License: #731286, Class A, B  
Expires: 7/31/2015  
City License #B1998008128  
Office in San Diego County for 19 years  
16 employees in SD County



## **Section 1: Addenda to the RFP**

---

- Orion Construction Corporation / Balboa Construction Inc. (hereafter referred to as Orion) and our Design Partner GHD, acknowledge receipt of the following Addendums:
- Addendum 1 – May 2, 2016

## **Section 2: Exceptions to the RFP**

---

Orion Construction Corporation and our Design Partner GHD take no exceptions to this RFP.



## Section 3: Subcontracting Participation Percentages

Please see Appendix A for a listing of subcontractors, design professionals, and vendors that we propose to use for this project. Orion has a long history of exceeding SLBE/ELBE requirements for projects with the City, demonstrating the firm’s commitment to partnering with SLBE/ELBE’s.

As a result of our outreach for this project we have selected the following firms to perform work on this project:

DESIGN PHASE	CONSTRUCTION PHASE
GHD (OBE)	Underground Pipeline Solutions, Inc.
Hudson Safe T Lite	G. Scott Asphalt, Inc.
Land Surveying Consultants	Southwest Signal Service
AIR-X Utility Potholing	Miramar General Engineering
Humanability	Sealright Paving
Southern California Soils Testing (SCST)	Valor Construction
	Drave’s Pipeline
	LSI Roadmarking
	Brownlow Enterprises

In accordance with Section 11 of the RFP, we have exceeded the mandatory minimum subcontractor participation percentages for this RFP as shown below:

MANDATORY MINIMUM	SLBE/ELBE	DVBE	TOTAL
<b>Design Services</b>	13.1%	1.60%	14.70%
<b>Construction Services</b>	22.3%	4.00%	26.30%

The dollar amounts for each SLBE/ELBE and DVBE subcontractors are listed on the subcontractor listing forms included with our price proposal. Additional documentation can be found in Appendix A.

During the proposal preparation, our estimating team analyzes the overall scope of the project and identifies the portions that are most suitable for small business subcontractors. Certain categories of work, such as AC Paving and Pedestrian Ramps, are small enough that SLBE/ELBE/DVBE contractors can bid the entire scope of work. For larger components of work, such as pipeline installation, the estimating team breaks the work into smaller pieces so that SLBE/ELBE/DVBE subcontractors are still able to bid. Once we create our subcontractor solicitation list, we send faxes to all contractors notifying them of the bid and providing them a link to download information that pertains to their scope of work.

As part of our subcontractor outreach efforts for Group Job 1019, we solicited forty-six subcontractors, with more than thirty of whom are SLBE/ELBE/DVBE businesses. Below is a complete list of the subcontractors given an opportunity to submit bids for this project:



<b>ADA Ramps</b>	<b>Geotechnical</b>	<b>Slurry Seal</b>
YBS Concrete	Allied Geotechnical	G. Scott Asphalt
Olympic Engineering Construction	SCST	American Asphalt South
MJC Construction		
Vara Contractors	<b>Paving</b>	<b>Striping</b>
Carolino Construction	Frank and Son Paving	Linear Striping
	Kirk Paving	LSI
<b>Aggregates</b>	Rap Engineering	Payco
Hanson	Anthony's Grading and Paving	Mallard Construction
Vulcan	Sealright Paving	
Robertsons		<b>Survey</b>
Brownlow	<b>Piping</b>	Bergrenn and Associates
K Company	Drave's Pipeline	Alta Land Survey
Superior Ready Mix	Western Water Works	Rancho Coastal Engineering
	Ferguson	Land Surveying Consultants
<b>Chlorination</b>	HD Supply	
Prolink Chlorination		<b>Traffic Control</b>
Matt-Chlor	<b>Portions of Pipeline</b>	ACME
	Transtar	Hudson Safe T Lite
<b>Community Liaison</b>	Valor Constructors	
Humanability	Underground Pipeline Solution	<b>Traffic Loops</b>
Cook & Schmidt		Sutherlin Contracting
	<b>Potholing</b>	Perry Electric
	AirX	CTE Inc
		Southwest Traffic Signal





## Section 4: Executive Summary

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Orion Construction Corporation has teamed with our affiliate company Balboa Construction, Inc. in a Joint Venture. The Orion/Balboa J.V. was licensed by the State of California in 1997. For this project, Balboa will be providing labor, equipment, onsite trucking, and haulage services. Orion will be the single point of contact with the City, and for the purposes of this RFP, the J.V. Contractor will be referred to as “Orion”. Orion recognizes that the project will require in-depth local construction knowledge and specific engineering design expertise to meet the City’s project requirements. Orion believes that a Contractor led, fully integrated design-build engineering and construction team, is the best approach to provide the City with the desired result. Our team members were selected not only for their personal talents, but their proven ability to work together as team players, incorporating City staff and future stakeholders into the D/B process. This puts the right people in authoritative control, empowered by Orion ownership to implement all the previous successes from past City D/B collaborations. The team has incorporated the latest City design standards, defined the construction phases, and developed sound traffic management in preparation of this proposal. Orion offers a well-rounded approach incorporating the philosophy that the Orion team is an extension of City staff, representing the city, to the local community.

### Project Team

Orion has selected Mark Dowsing to serve as the project manager, based upon his past experience and recent work constructing large design build utility infrastructure projects in excess of \$30 million in scope. Mark has worked on some of the City’s first Design Build Group Jobs, such as Group Job 790. Mark’s team will consist of Ryan Danielson, a seasoned specialist in large utility water pipeline projects, and Scott Vargas, the superintendent who completed numerous City of San Diego Group Jobs and Utility Infrastructure projects. They will bring their lessons learned and relationships from the past projects helping mitigate construction impacts to the community and ensure a successful project.

Orion has selected GHD as the design engineer consultant for this task order. Orion has a long history with GHD completing 9 Design Build projects with them valued at over \$66 million in the recent past. Orion and GHD also recognize the importance of proactive communication with the community and have selected ELBE firm Humanability as the community outreach partner for this project.

Orion and GHD together have completed over \$66 million in Design Build Projects.

### Design Approach

Orion’s approach will integrate the construction phasing, service connections, and other elements of the construction into the conceptual design early in the process. Orion will identify and incorporate permit requirements and coordinate with local service agencies such as: fire, police, and waste disposal for access impacts. Orion will collaborate both through the design and construction phases to minimize overall impacts to the project and surrounding residents; Orion has already conducted field investigations and community outreach to incorporate stakeholder input into this proposal. Orion will take additional care to coordinate with adjacent City projects. Project UUP-4J1 and Group Job 1019 will require additional coordination of final scopes for paving and curb ramp limits pursuant to addendum 1.



**Construction Approach**

Orion will minimize the impact to the residents, neighborhood schools, and churches while completing our work in safe, clean, and efficient manner. Public safety is the foremost concern when working in the public right-of-way. As such, an aggressive public outreach and a project specific safety plan will be developed. The safety plan will identify safe passage for the public during construction activities and place special attention to the safety of pedestrians and special needs residents. The project will be broken into 2 distinct construction phases each with a final clean up and hand over to Water Operations at the end of the phase.

**Challenges/Cost Saving Measures**

Group Job 1019 has several unique challenges, and some opportunities for cost saving measures for the City. The Orion team has reviewed the RFP documents, additional engineering resources, and conducted field studies of the existing conditions for the purpose of proposing on this project. The field investigation was completed with the key team members from the design and construction disciplines. The investigation included walking the entire alignment multiple times to review possible design and construction alternatives, while meeting with local residents to incorporate their concerns into our design and construction plans such as the missing sidewalks forcing disabled residents to travel in vehicular traffic via wheel chair or the blind spots created by the RFP for vehicles making left turns on 49<sup>th</sup> street. This proposal includes the best combination of design and construction ideas to solve each potential issue while satisfying the ultimate end users, the residents.

**Public Outreach**

Orion has identified and met with numerous community stakeholders to get a solid understanding the project’s impact on the community. Orion has incorporated these findings into the construction phasing and traffic control approaches. Orion conducted direct outreach to the residents like Myra Wilson and Dairie Bowden to engage the community as early as the proposal phase. This outreach helped Orion incorporate disabled access, site lines, and traffic approaches that benefit the community into this proposal, well before the typical project outreach.

**Small Business**

Orion’s long standing project history with the City has facilitated an understanding, appreciation, and commitment to meeting or exceeding the City’s goals for supporting SLBE/ELBE and disabled veteran business enterprises (DVBE). We received the 2012 Prime Contractor of the Year Commendation from the previous City of San Diego Mayor, Jerry Sanders, for consistently meeting and/or exceeding subcontracting goals and serving in the AGC Mentor Protégé Program. Orion continues to this day to Mentor contractor’s both formally and informally, helping the overall construction community within San Diego achieve greater diversity. For this project, we have selected City of San Diego Approved SLBE/ELBE/DVBE’s to support our work on this project and have exceeded the mandated minimum.

“I recognize Orion Construction for consistently meeting and/or exceeding subcontracting goals”  
– Jerry Sanders



MACC Task Order  
AC Water Group 1019

**ORION**  
JOINT VENTURE  
BALBOA CONSTRUCTION, INC.

*R Dowsing*

**Richard Dowsing, President**  
**Orion Construction Corporation**



## Section 5: Project Team

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### Changes to Key Personnel Identified in SOQ

The Project team has been updated from the Initial Statement of Qualifications submitted to the City for the MACC. The following changes and personnel are submitted for City approval:

- Design Build Project Manager: Mark Dowsing, P.E. will be Orion's D/B Project Manager responsible for the entire project. Mark's resume is included in the appendices.
- Design Manager: Patrick Garner, P.E. will be Orion's Design Manager responsible for the integration and coordination of work with our design firm, GHD. Patrick's resume is included in the appendices.
- Design Project Manager: David Holman, P.E. is GHD's Design Project Manager. David's resume is included in the appendices.

### Project Team Overview

Orion and City staff are both actively involved in the quarterly Industry Liaison committees held by the Association of General Contractor's San Diego Chapter (AGCSD). This involvement has allowed City staff to effectively communicate the quantity, schedule, and scope of projects envisaged by the City as part of its overall Capital Improvement Program to Orion in a meaningful way. This collaboration has allowed Orion to align our long term company resource planning with anticipated City goals for the number, size, and scope of upcoming D/B procurements. Anticipating increased numbers of requests for proposals in the near-term, we are continuing to foster our relationships with our design partners and actively mentoring new and up and coming small business partners, both in the design and construction phases. Orion structured its teaming partners for this City project such that the project load is shared between GHD, and City Approved SLBE and ELBE businesses; resulting in the ability to deliver the most efficient schedules for this City project.

This team brings to the City of San Diego local, highly reputable, and experienced design-builders that are able to provide the same quality design, construction, and attention to client service that has been a goal and hallmark of Orion's past city projects. Orion has worked with GHD for 9 years, building together 9 D/B water and wastewater projects, valued at over \$66 million dollars in San Diego County. The core group of design and construction professionals that worked on these past collaborations are proposed on this project.

This team has extensive and direct local experience that is ideally suited to water and wastewater pipeline, design, and construction in metropolitan San Diego. Orion has completed City Design Build Pipeline Group Jobs 790, 921, 922, and 926; totaling nearly \$16 million in project value. Orion also has the following ongoing D/B projects in various stages of construction: Group 743, Group 1010/1005, Catalina Cast Iron Main Replacement, and Meadowlark Water Main Replacement all told totaling \$31 million. As shown in the table below, Orion's current City projects align well with the projected schedule for Group Job 1019. The design phases of these projects will be completed shortly and do not substantially overlap workloads needed for GJ 1019, especially when two design engineers are used. Orion's current construction phases will be



substantially complete before Group Job 1019 is scheduled to proceed to construction with the exception of the Catalina Cast Iron Main Replacement, which will have a separate and dedicated crew throughout its construction phase.

<b>Orion City of San Diego D/B Project Progress</b>			
<b>Project</b>	<b>Phase</b>	<b>Start</b>	<b>End</b>
Group Job 743	Construction	1/1/2016	7/31/2016
Group Job 1010 & 1005	Construction	4/1/2016	5/1/2017
Catalina Cast Iron Main Replacement	Design	6/16/2015	5/31/2017
Catalina Cast Iron Main Replacement	Construction	5/31/2017	1/14/2018
Meadowlark Water-Main Replacement	Design	1/14/2016	12/15/2016
Meadowlark Water-Main Replacement	Construction	9/26/2016	10/11/2017
Proposed Group Job 1019	Design	5/31/16	3/7/17
Proposed Group Job 1019	Construction	3/7/17	3/1/18

The following summarizes our key personnel to be assigned to the project, including relevant design and construction experience of each member. Key personnel available for assignment to this project are immediately available and committed to fulfilling their respective assignments for the full term duration of the project.



## Key Personnel

### *Project Manager – Mark Dowsing P.E.*

The successful design and construction of this project centers on Orion’s Project Manager (PM), Mark Dowsing. Mark will serve as the day-to-day point of contact for the City of San Diego’s Project Manager. Mark is a registered Civil Engineer with a Bachelor’s and Master’s degree in Civil Engineering from UCLA. He has over 10 years of experience with Orion managing wet utility design build projects up to \$30 million in project value such as the recently completed Design-Build P-1044 Water Conveyance Project, which consisted of 17 miles of new water and waste water pipelines installed at Camp Pendleton, or the 2014 DBIA Award Winning La Bonita Park Water Facilities Project. In addition to managing design build contracts, Mark has also served as the principal engineer (Designer of Record) on a number of utility infrastructure upgrades throughout San Diego County, including the City of San Diego. His experience in both the design and the construction fields has allowed Mark to gain a unique perspective into all facets of the project delivery process, ensuring D/B projects run seamlessly between phases. Mark is on the City Liaison Committee hosted by the AGCSD and is an integral participant in Orion’s long range planning and its development of the capacity to provide continued service for all future City needs. Mark has an in depth knowledge and understanding of the Group Job 1019 Project as he and his aforementioned team personally prepared this proposal.

#### Certifications/Registrations

- CA Civil Engineer #76514
- LEED AP
- QSD #20494
- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- HAZWOPER 40 Hour

#### Education

- BS Civil Engineering - UCLA
- MS Civil Engineering - UCLA



From the City Notice to Proceed through project completion, Mark will deliver a high quality design with safe and prompt construction, while integrating City Staff comments, community feedback and providing coordination with other City projects and impacted public entities. Mark will be complemented by a fully integrated design and construction team that has consistently delivered successful projects on time and to the complete satisfaction of the City. Mark’s team members have been specifically selected for their personal attributes of being collaborative, adaptable, and proactive in dealing with all the challenges that are typically faced in a D/B project; especially using specific construction sequence phasing to minimize construction related community disruptions. Well planned phasing maximizes the speed of completing whole sections of the pipeline installation all the way to final testing and paving, while simultaneously minimizing or duplicating public impacts from multiple mobilizations. The net result is that the community sees the section of work that is directly impacting them prosecuted to final completion quickly and efficiently in a logical sequence.



**Certifications/Registrations**

- DBIA Certified Professional
- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- HAZWOPER 40 Hour

**Education**

- BS – Civil Engineering - Union College



*Project Director – Rob Wilson*

Rob Wilson will serve as the Project Director. Rob is the Vice President of Orion and has over 30 years of local experience in the construction industry, almost 20 of these with Orion. He will provide senior corporate-level management to the project. Rob is fully versed in the Design Build delivery method and is an active member of the DBIA community. Rob will monitor the design and construction teams, ensuring that Mark Dowsing has all the available resources needed to complete this project successfully. Rob fulfills this role on all our City D/B projects, ensuring the continuity of quality service every time. Orion Construction, and Administrative Management Staff, participate in a comprehensive region wide weekly progress meeting that discusses and addresses: project status, issues, staffing, and potential challenges on active projects. At these meetings, Mark will update Rob and the rest of Orion’s management team on the progress. Together, Rob and the rest of Orion’s management team, will collaborate to identify potential internal and external issues that could affect the project and resolve or develop strategies for their resolution.

*Design Build Project Engineer – Patrick Garner P.E.*

Patrick Garner will serve as the Design-Build Project Engineer. Patrick is a registered Civil Engineer with a Bachelor’s degree in Civil Engineering from USC. Patrick has over 5 years of experience in all facets of the design build utility infrastructure field with Orion. During his 5-year tenure with Orion, he has successfully taken on management roles with increasing levels of responsibility on numerous D/B projects. He served as Project Engineer with Mark at the \$11.0 million dollar La Bonita Park Water Facilities Project, which won the 2014 California DBIA Distinction Water Project Award. He recently completed the City of San Diego Design Build Recycled Water Systems Upgrade, coordinating the project from inception to final startup. The project was selected for an APWA Honor Award for 2015. As a licensed professional engineer, he has served as an in-house Orion designer for the delivery of complete designs for two Navy Wet Utility upgrade projects, totaling \$2.7 million dollars. He primarily utilized our head office staff resources, and select geotechnical and survey sub-consultants to complete these projects. His working relationship with GHD will allow him to seamlessly integrate construction input and design drawings into a single product, and provide engineering support to Mark as the PM throughout the whole D/B process.

**Certifications/Registrations**

- CA Civil Engineer #84903
- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour

**Education**

- BS Civil Engineering – USC





**Certifications/Registrations**

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- HAZWOPER 40 Hour

**Education**

- BS Civil Engineering – McGill University



*QA/QC Manager – Heidi Andrews*

Heidi will serve as the overall Project QA/QC Manager and Permitting Engineer. With a Bachelor’s degree in Civil Engineering from McGill University in Montreal, she will ensure that all design QA/QC from GHD’s internal program is incorporated into the final design. She is responsible for the follow on QC from design on into the construction phase. Heidi has over 20 years of experience in water/wastewater infrastructure construction, 15 of them with Orion. She is a well-rounded professional construction executive versed in all aspects of D/B project delivery. She is the project manager currently constructing the D/B Sodium Hypochlorite Upgrades at the City’s Otay Filtration Plant, having already managed the project through the design process with GHD as the design engineer. She is a NAVFAC trained and certified quality control manager. She was the quality control manager and permitting engineer for the DBIA Award Winning Orion Design-Build La Bonita Park Water Facilities Project and this year’s APWA Water Utility Project of the Year completed at the San Diego Airport by Orion. Heidi will develop the project’s comprehensive Quality Control Plan (QC Plan), oversee its execution, and adherence contract requirements. Heidi will also provide project-wide Quality Assurance to the designer’s own internal quality control program, and work closely with Orion’s Design and Construction team members to provide additional oversight, to ensure the overall plan is being appropriately implemented. Reporting directly to Mark as PM, she will utilize all the company resources at her disposal, including periodic construction site audits and regular documented QC meetings.

**Certifications/Registrations**

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour

**Education**

- Bachelor of Science - SDSU



*Construction Manager- Ryan Danielson*

Ryan will serve as the Construction Manager (CM). Ryan has over 10 years of construction experience in water and waste water infrastructure, 6 of these with Orion. As construction manager, Ryan’s latest experience includes the Design Build P1044 and P1046 Water and Reclaimed Water Infrastructure Projects on Camp Pendleton with Mark Dowsing (PM) and GHD (Designer), projects totaling over \$50.0 million. His wet utility experience includes: treated water, raw water, sewer, storm drain, and brine line conveyance lines. The breadth of his D/B utility experience will assist him in managing the day-to-day construction of Group Job 1019. During the construction phase, Ryan will prepare and update the three week look-ahead schedule, review and address community impacts and concerns, review day-to-day crew planning with the site superintendent, and address potential public and worker safety concerns. He will





report directly to Mark, Orion’s Design Build Project Manager. In preparation of this proposal, Ryan Danielson personally reviewed the project site conditions extensively and validated the existing as-built information. He was an integral member of the team that came up with the proposal design concept. As a final check, he performed a number of constructability reviews of the proposed design concept with Orion’s experienced field superintendents, incorporating their comments and ideas into preparing this response to the RFP.

*Superintendent – Scott Vargas*

Scott has over 25 years of experience in utility construction in San Diego, 19 of which with Orion. Scott is a senior Superintendent with Orion and, among his many talents, he is responsible for training the next generation of Orion field management staff in how to effectively build D/B wet utility pipelines to City standards. During his long tenure at Orion, Scott has constructed numerous water and sewer pipeline replacements in the City of San Diego. He has been integral in Orion’s transition from the traditional hard dollar bid utility projects into the Design-Build delivery method over the last decade, bringing valuable real world construction experience into the design phase. Utilizing his experience and field craft, he has been able to provide valuable insights assisting the D/B team to eliminate the avoidable pitfalls in bringing designs to life from a concept, through design, and into a finished functioning system. As superintendent Scott recently completed the City of San Diego Design Build Scripps Ranch Pump Station, which won the 2014 APWA Outstanding Project Award, and the APWA 2016 Project of the Year: NSU Storm Drain Trunk. Scott was actively involved in the preparation of this Proposal from the beginning conducting numerous site visits and validating the design concepts by GHD.

**Certifications/Registrations**

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- Competent Person: fall protection, scaffolding, trench shoring and excavation, confined space
- First Aid and CPR



**Certifications/Registrations**

- CA Civil Engineer #80164
- AZ Civil Engineer #47544
- Member of ASCE, ACEC, APWA

**Education**

- BS – Civil Engineering



*Design Project Manager – David Holman, PE*

David Holman, PE, will serve as GHD’s Design Project Manager for the east portion of the project. David has 13 years of professional experience in project management, planning, design, permitting, and construction oversight of capital projects focusing on water & wastewater infrastructure. David is experienced with City of San Diego Design-Build projects. His work includes GJ 3012 and GJ 814. David is also the project manager for the Otay 1st & 2nd Pipelines West of Highland Avenue project for the City of San Diego. David will manage GHD’s in-house design team and coordinate with all members of the Orion team throughout the project.



**Certifications/Registrations**

- Professional Engineer Guam #1647, Montana #12640, Washington #34105, Nevada #13898, CNMI #416
- ASCE and SAME Member

**Education**

- BS – Civil Engineering Oregon Institute of Technology



*Civil Engineer – Phil Slagel P.E.*

Phil Slagel, PE, will serve as GHD’s Design Project Engineer. Phil has over 25 years of professional engineering management experience including water & sewer pipelines, storm drain systems, and construction support services. Phil is currently the project engineer for the Camp Pendleton design-build project P-1044 Conveyance Facilities with Mark Dowsing and Ryan Danielson which consists of over 17 miles of new 16-inch pipeline. Phil is also currently the engineer for 4 projects with the City of San Diego, including Group Job 827. Phil’s knowledge of the City’s current design standards and relevant pipeline design experience will be applied to this project. Phil will oversee GHD’s design and development of the construction plans and specifications.

**Certifications/Registrations**

- CA Civil Engineer #67618
- NAVFAC Quality Control Management Certified
- Member of APWA, ASCE, and AWWA

**Education**

- BS – Civil Engineering Cal Poly San Luis Obispo



*Design Quality Control – Greg Watanabe*

Greg will serve as GHD’s Design QC Manager. Greg has over 18 years of technical experience in engineering and capital improvement programs and project management. His emphasis has been in the assessment, rehabilitation, design and constructability of over 100 miles of water and sewer pipeline systems up to 96-inches in diameter for public utility systems. Greg has performed the role as QA/QC Manager on multiple City of San Diego projects and complies with GHD’s ISO 90001 compliance requirements. Greg is currently serving as Design QA/QC Manager for the Camp Pendleton D/B projects P-1044 and P-1046B Conveyance Facilities with Orion and has been certified as a Quality Manager by the U.S. Army and Navy.



*Community Outreach - Humanability*

Orion has a long continuous history of successful community outreach with SLBE public-relations firm Humanability. This history includes over 8 past City water group jobs. Based on this relationship, we have recruited Humanability again as our Community Liaison partner. Humanability will be responsible for creating and implementing our Community Outreach Plan. Orion and Humanability will together develop a one-on-one relationship with impacted residents in the project area as construction crew’s work through their neighborhoods, ensuring all community concerns are addressed.



*Geotechnical Engineering and Testing – Southern California Soils and Testing (SCST)*

SCST was established in 1959 and serves both the public and private sectors. Orion and its design partner, GHD, have a long standing relationship with SCST. The firms have collaborated on all types of design build construction including municipal and federal institutions and utility infrastructure.



*Underground Pipeline Solutions, Inc.*

Underground Pipeline Solutions, Inc. (UPSI) is a locally owned general engineering contractor specializing in water, sewer, and storm drain construction. Established in 2010, UPSI is certified as an Emerging Local Business Enterprise (ELBE), with the City of San Diego, a Small Business (SB), with the State of California, and a Women Owned Small Business (WOSB), with the federal government. Marty Cox, President of UPSI, runs field operations and has more than 35 years of experience in underground wet utilities construction. Valli Cox is the co-owner of UPSI, and is responsible for the administrative and financial operations of the firm. UPSI has completed numerous wet utility infrastructure projects for local public agencies, including the City of San Diego, Lakeside Water District, and the Port of San Diego. For this project, UPSI will install a complete segment of the new water infrastructure, including the high-lining, water mains, services, fire hydrants, and trench patching on Deaton Drive, Dafter Drive and Place, and Genesta Street. Orion will mentor and assist UPSI in all facets of the work, helping bring them into the design-build arena.



*Valor Constructors Inc.*

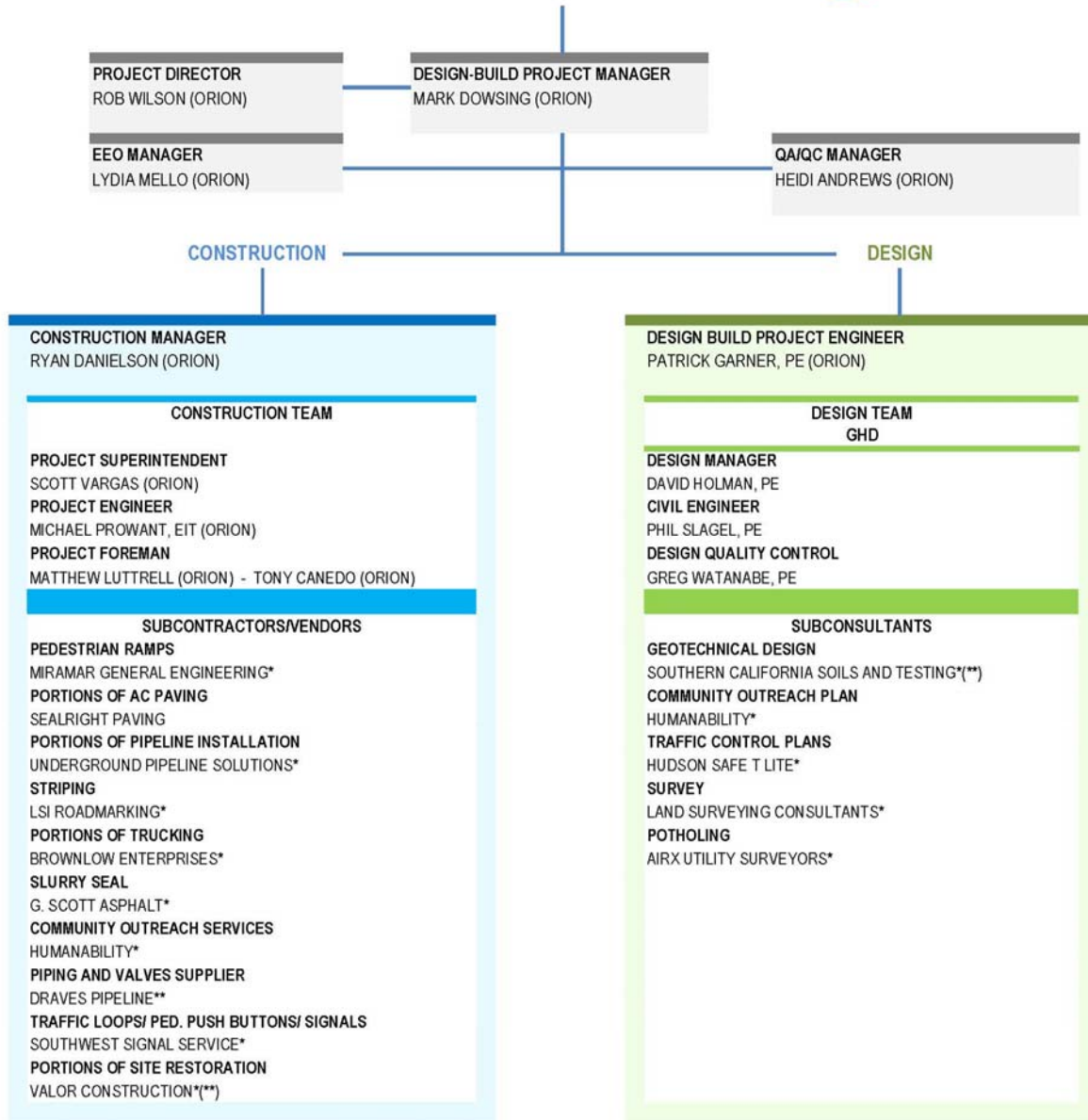
Valor Constructors Inc. is a locally owned general engineering and building contractor. Established in 2013, Valor has established a reputation as a competent and reliable subcontractor performing building and engineering construction for larger general contractors on military bases throughout Southern California. Valor is a federally certified Service-Disabled Veteran Owned Small Business (SDVOSB) and a State certified Disabled Veteran Business Enterprise (DVBE). In addition, with the assistance of Orion Construction, Valor recently became certified as a Small Local Business Enterprise (SLBE) with the City of San Diego, and completed its first project for the City as a subcontractor to Orion on the Langmuir Street and Acheson Street Emergency Storm Drain Replacement Project. This project entailed replacement of failed CMP storm drain piping located in the back yard of a private residence. Valor performed approximately \$80,000 of work on this project



including site demolition, hand excavation, storm drain pipe repair, sidewalk and masonry replacement, and landscape restoration. Valor performed the work in an expedient and efficient manner to the complete satisfaction of the City Resident Engineer. Valor's Owner, Bryce Brown, is a veteran of the U.S Army, serving as a Captain with the Corps of Engineers. During his military service Bryce directed the construction of major portions of the infrastructure and fencing along the US-Mexico border, with a staff of over 200 construction workers. For this project, Valor will perform replacement of sidewalks and restoration of other site work impacted by the pipeline installation. Orion will continue to mentor and assist Valor to ensure his success in the City SLBE program.



# The City of SAN DIEGO



LEGEND  
\*City of San Diego SLBE/ELBE Certified  
\*\* DVBE Certified

Figure 1 – Org Chart



## Section 6: Technical Approach and Design Concept

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### 6.1 Design Concept Overview

The Orion team's design approach to the Group Job 1019 design-build project is based on a review of the following documents and is in compliance with Attachment A: Section 43 Supplemental Requirements.

- Bridging documents and the RFP with all addenda.
- City water, sewer, right-of-way, and GIS data from SANGIS and SPLASH databases.
- Water and sewer GATE Book Infrastructure Atlas Maps.
- Aerial orthophotography.
- Multiple site visits by the design and construction teams, including measurements, photographs and discussions with community members and leaders.
- Utility company record drawings.
- Planning studies from related CIP projects for potential impacts to this project.

Orion has produced an accurate concept of Group Job 1019's work scope utilizing the above and publicly available documents. The GIS maps were reviewed in conjunction with the field walks to produce the detailed counts of the water services, fire hydrants, blow offs, air-vacuum valves, fittings, valve clusters, and points of connection.

The project will replace aging Asbestos Cement (AC) water pipelines to improve system reliability, hydraulics, and compliance with current City standards. 16,809 feet of 6-inch and 8-inch AC pipeline will be replaced with 8-inch PVC water pipe. The replacement water pipelines will generally follow existing horizontal and vertical alignments and will replace the existing water mains in place. Special attention will be paid to Brookline St., Date Pl., Denton Dr., Drafter Pl., Drafter Dr., Duval St., Elm St., and Fir St., for the separation of the existing sewer to the proposed water main for potential Department of Health permission. The work will be replace-in-place pipeline utilizing open trench construction. Orion will utilize the following proven design process to successfully complete the Group Job 1019 Project.

- ***Kickoff Meeting*** – Orion will use the City kickoff meeting to reaffirm our understanding of the City's expectations, review the schedule, discuss questions, and identify action items.
- ***Data Gathering*** – Following the ***Kickoff Meeting***, Orion will identify information that was not included in the RFP and request additional information and as-built drawings from appropriate utility agencies such as SDG&E, ATT, CATV, etc.
- ***Design Survey*** – During the ***Data Gathering***, Orion's will develop the design survey with its selected sub-consultant. The surveyor will pick up, and incorporate into the survey, additional surface and subsurface information requested by the Design Team.
- ***Base Mapping*** – Using the ***Design Survey*** and information obtained during the ***Data Gathering***, the Team will develop the project Base Mapping which includes all existing facilities pertinent to the project design and construction.
- ***Field Investigation and Potholing*** – The Construction Team will use the RFP provided Base Map to evaluate the construction corridor, identify utilities to pothole during the design phase, and identify and address construction challenges, and provide feedback to the Design Team.



- **Design Concept** – Based on the *Field Investigations*, Orion’s Construction Team will coordinate with the Design Team to develop a conceptual design that will minimize public, traffic, and the environmental impact during construction.
- **Community Relations** – The Community Relations Plan will be developed during the design phase. It will identify stakeholders, include a schedule for holding community meetings, and milestones preparing/distributing door hangers.
- **Basis of Design** – The Design Team will develop a Basis of Design Report (BODR). The BODR will include the current project description, design calculations, requested deviations from City Standards, ADA curb ramp compliance, permit requirements, and project schedule.
- **Geotechnical Investigation** – using the *Design Concept* the Design Team will coordinate with the Geotechnical Engineer to perform the Geotechnical Investigation and prepare the Geotechnical Report with recommendations.
- **Design Submittal** – Utilizing the *Geotechnical Report* recommendations, *Design Concept*, and *BODR* the Design Team will prepare the design submittal. Each design submittal will include all of the information required for the level of submittal (30%, 60%, 100%).
- **Internal QA/QC Team** – Prior to all *Design Submittals*, Orion’s Design Build QA/QC Manager Heidi will oversee the review of the design submittals with the appropriate parties.
- **Preconstruction** – Once the appropriate *Design Submittal* level is approved for construction (60% or 100%) by the City, Orion will submit the project Safety Plan, SWPPP, SWQMP, traffic control plan, and request a Preconstruction meeting.
- **Construction** – Following the *Preconstruction* meeting, Orion will coordinate with our Community Relations sub consultant to prepare and distribute door hangers, meet with appropriate residents and businesses, re-call for USA mark outs for the entire project, coordinate construction surveying with City, obtain appropriate permits (traffic, noise), and initiate additional potholing and utility locating as appropriate. Throughout construction, Orion will hold weekly construction meetings and coordinate with adjacent projects.
- **Post Construction / Startup** – Orion will address all of the City’s punch list items, implement appropriate startup measures and training, and prepare as-built drawings.





## 6.2 Technical Design Approach

### 6.2.1 Pipeline Alignment, Sizes, and Locations of Appurtenances

#### Water and Sewer Alignments and Separation Requirements

The project team will design the alignments to be in compliance with the California Title 22 Code of Regulations, Division 4 Environmental Health, Chapter 16, Article 4, Section 64572. The regulations require a minimum 10 feet of horizontal separation (outside pipe to outside pipe) and one foot of vertical separation. For pipe separations between four and ten feet (Zone B – see Figure 2), an exception can be made with the use of pipe material upgrade and joints in compliance with AWWA PVC C900 minimum Class 305 (DR 14). If the four-foot separation cannot be met (Zone A), special permission is required from the State Water Resources Control Board (SWRCB).

#### Water Pipeline Alignments

Generally, the water pipelines will be replaced in place similar to the locations shown within the RFP and bridging documents. However, in some locations additional permission may be required from the Department of Health. There are conflicts within the existing alignment. The replacement water mains in this area will be reviewed with the available zone, material classification, and permissions required for installation.

#### Water Pipeline Appurtenances

##### *Air Vacuum/Release Valves*

All high points on pipelines 12” and smaller will have a fire hydrant or 1-inch air vacuum/release valve as shown in Appendix C.

##### *Blow-offs*

All low points will have a fire hydrant or 2-inch blow off assembly for pipeline sizes 12-inches and smaller. The potential 2-inch blow off locations are shown in Appendix C.

##### *Water Services*

Water services will be replaced in place and in like kind. All services will be connected to the new distribution main.

##### *Valves*

Valves on piping 12-inch diameter and smaller will be gate valves. The valves will meet AWWA C500 or C509 standards and will be selected from the City’s Approved Materials List.

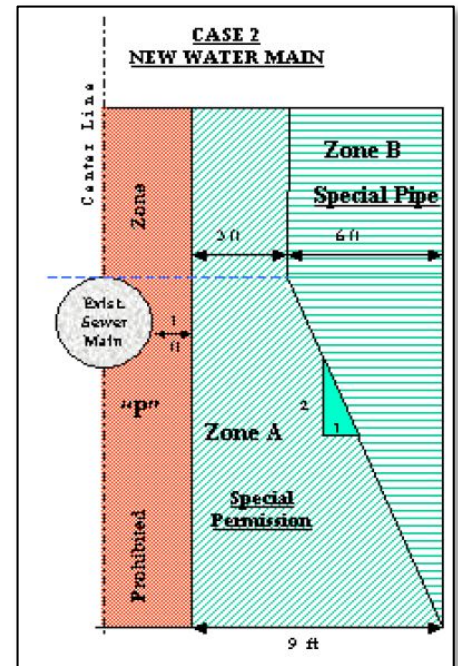


Figure 2 – Water/Sewer Separation Requirements





*Fire Hydrants*

The project area consists of single-family residential (RS-1) and includes one school. In the residential areas, the hydrants will include 2 ports; one 4-inch port and one 2 ½-inch port. The hydrants adjacent to the Webster Elementary School will be upgraded with 3 ports; two 4-inch ports and one 2 ½-inch port. The City design standards require that hydrants in single family residential areas shall be located at street intersections but not more than 450 feet of separation between hydrants (Water CIP Guidelines and Standards, Book 2, Chapter 3). Figure 3 has been prepared to show the anticipated quantity and locations of the fire hydrants. These proposed locations include additional hydrants required to comply with current City standards.

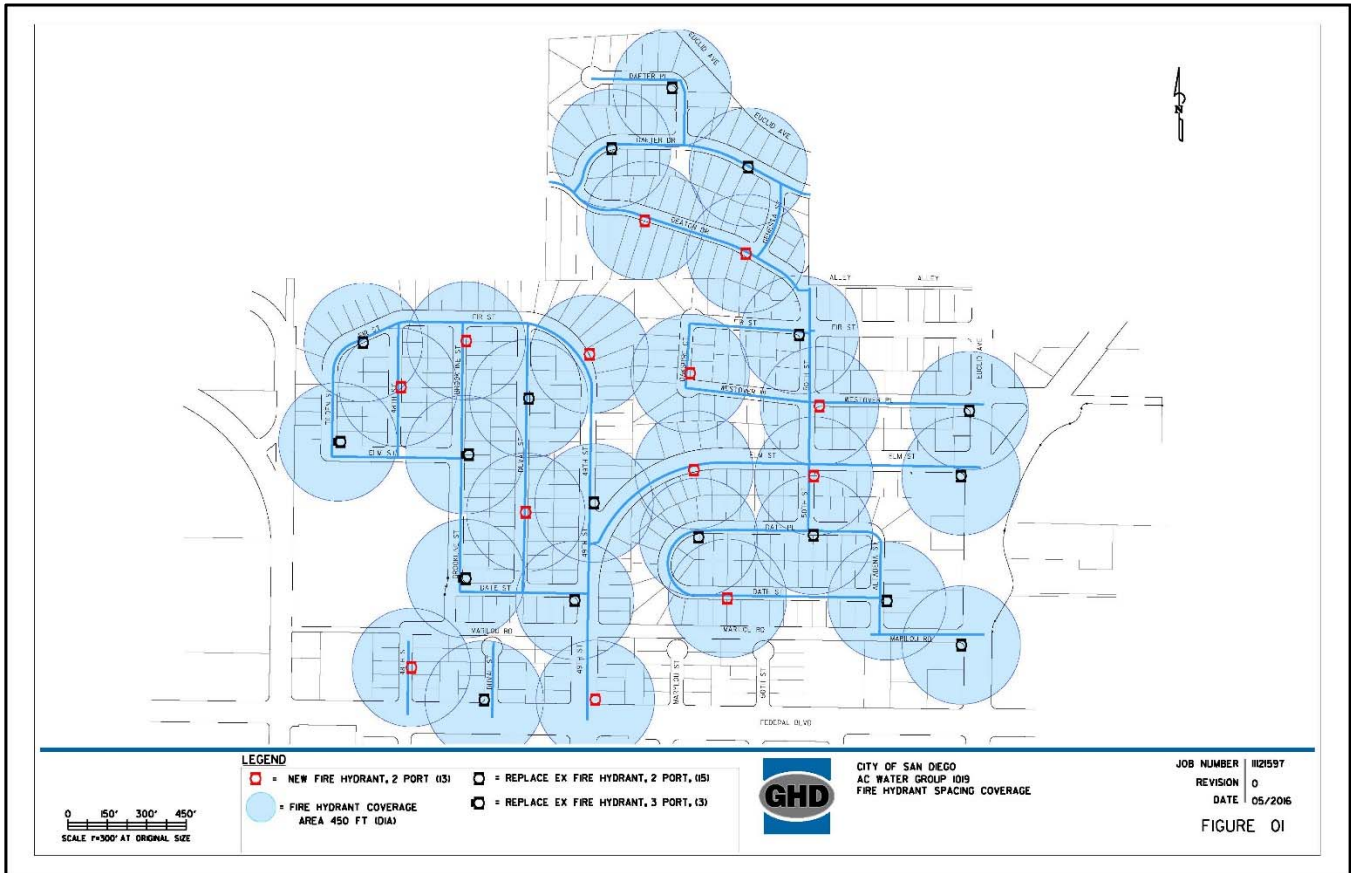


Figure 3: Proposed Fire Hydrant Map

**6.2.2 Traffic Control Approach**

The overall traffic control approach will be to prepare traffic control plans which minimize disruptions to the residents, businesses, schools, and commuters. The streets were studied during the field inspections for traffic flow patterns, allowing a comprehensive approach to be included with this proposal.

By analyzing the work in all areas, reviewing the ADT traffic counts in the Bridging Documents, and examining traffic conditions during our site visit, we divided the traffic control requirements into four categories:



1. Engineered Traffic Plan Areas: Federal Blvd. and Euclid Avenue have traffic volumes in excess of 10,000 ADT. Fully engineered D-Sheet drawings will be used in these areas. A California Professional Engineer will sign and stamp the D Sheet traffic control drawings and submit them to City of San Diego Traffic Division for review.
2. Street Closure and Detour Areas: For the two-lane, neighborhood streets, the work area will be closed to through traffic. Detours will be implemented utilizing the neighborhood grid pattern. Detours will be short and cause minimal impact to drivers in the area.
3. Lane Closure and Flagger Areas: Elm Street between Euclid Ave and 49<sup>th</sup> Street will have the southern lane closed; traffic will be routed through the northern lane. 49<sup>th</sup> Street between Elm Street and Federal Blvd. will have the eastern lane closed; traffic will be routed through the western lane. Full time flaggers will be used to direct traffic during the work hours.
4. School Area times: These areas will remain completely open during the pickup and drop off times. Elm Street and Brookline Street will be work free during Webster Elementary School’s pick up and drop off hours.



Figure 4 – Traffic Control Master Plan

### 6.2.3 Design QA/QC Approach

As noted in our Project Team above, Heidi Andrews will serve as the Team’s overall Project QA/QC Manager and Construction Quality Control. Heidi will coordinate with Gary Watanabe and Patrick Garner to integrate the design review process into a project-wide quality control plan. As Orion’s project QA/QC Manager, Heidi will report directly to Mark Dowsing and will be



responsible for the oversight of the entire design and construction process and its conformity to the contract documents.

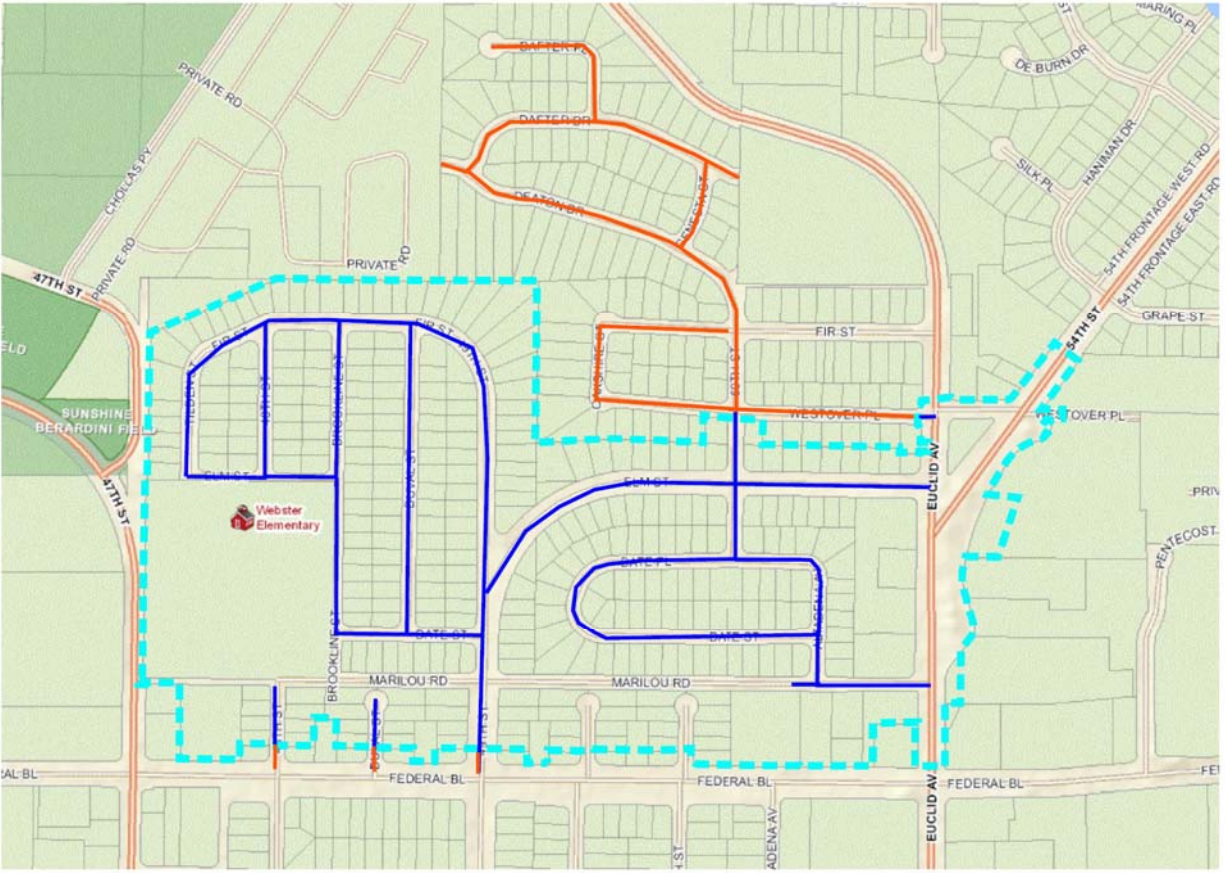
Gary will be responsible for the oversight of the design process and its conformity to the contract documents. The review process will require discipline experts to review the design package. Through each stage of the design process, he will coordinate with the discipline reviewers ensuring that each discipline and cross discipline has been reviewed and signed off. He will coordinate with the design discipline leaders to ensure that they included all of the items that are listed in “Attachment A”, Section 29, Design Submittals, of the RFP. They will be responsible for identifying any variances or changes as the design proceeds from design concept and bring these variances to the City’s attention at the time of submittal.

A project specific QA/QC checklist will be developed with City staff. The checklist will provide the City and Orion Team reviewers with clear and complete responses to review comments keeping the design process and design schedule on track. The QA/QC Checklist will be completed and submitted to the City within two weeks of receiving City design submittal comments. A meeting or conference call will be set up to go over the responses to comments to confirm that the comments have been addressed satisfactorily to the City and to resolve any discrepancies between the reviewers and designers. All of the comments will be tracked and logged through each individual submittal phase and a complied, to date, record will be provided to the City at each submittal phase.

Once the design packages are ready for delivery to the City, Heidi will independently review the packages to certify that the entire submittal package is in conformance with the contract documents. During the Construction Phase, Heidi will confirm that construction submittals are being received, reviewed and approved, prior to moving forward. Heidi will submit and track RFIs and responses, manage permits, and confirm construction is in conformance with the contract documents.

#### **6.2.4 Paving Restoration**

The project team reviewed the bridging documents to determine the necessary paving requirements. Section 2.7.9 of the RFP stated that all streets in fair or acceptable condition will be slurry sealed and all poor or dual trench streets will be paved by the streets division. Therefore, Group Job 1019 will include only the slurry seal required for the street resurfacing. Further clarification was provided in Addendum 1 Q/A#6 which states that the follow on neighborhood underground electrical project UUP-4J1 will perform all street resurfacing in the overlapping project areas. Utilizing the City of San Diego SANGIS, Orion identified neighborhood 4J1 as shown in Figure 5. Streets in the 4J1 neighborhood, which will be coordinated for paving by the UUP-4J1 are colored in blue and the streets to be paved as part of Group Job 1019 are shown in orange. As the design-builder of the first new project into this neighborhood Orion will take the lead in ensuring a close collaboration between these project scopes, to avoid any duplication or redundant paving. This will make for coherent approach to a total neighborhood upgrade project of all the utilities and surface improvements that the community deserves.



- Waterline Replacement with Street Resurfacing Per Group Job 1019
- Waterline Replacement with Street Resurfacing Per UUP-4J1

Figure 5 – Paving Restoration Map

All trenches will be restored in accordance with the City Standard Detail SDG 107. Upon completion of base paving in a defined area, the finish asphalt “T” cut trench patch with slurry seal or full width asphalt street overlay is placed. This allows individual streets to be completed earlier so that the residents are not impacted by multiple remobilizations of construction crews through the same street to complete the varying work tasks: main line utility installations, lateral installations, base paving, finish paving, hardscape improvements, and slurry seal. Our crews explain this process to residents and businesses while passing out the work notices in order to diffuse any complaints to the City before they begin. Orion crews can complete streets or blocks of pipeline installation as a unit, keeping public perception positive.

**6.2.5 Water High-lining Plan**

The waterlines that will be replaced in their existing location will require a temporary high-line in order to maintain water services to the residents. In order to adequately serve the City's customers Orion has identified 2 project phases. See Appendix D for Phasing map. The map identifies the feed hydrants and cut/ plug locations. As part of the high lining process, Orion will perform the following services:



- **High-lining Plan**
  - Request copies of the City of San Diego's most recent updated field gate book drawings.
  - Coordinate the City's original design concepts.
  - Field investigate to identify actual locations of feed hydrants.
  - Identify water mains that will need to be cut and plugged in order to complete the new work.
  - Develop a high-line plan and cut and plug plan.
  - Phase the high-line and cut and plug work in proper accordance with approved project schedule.
  - Meet with City Forces to verify their acceptance of high-line and cut and plug plan.
- **High-lining Preparation**
  - Call for USA Mark Out to verify actual location of existing mains.
  - Final confirmation of high-line and cut and plug plan.
  - Notify community of areas affected by water outages during cut and plug operations.
  - Verify there are no conflicts with other water line replacement projects in the area.
- **High-lining Execution**
  - Install 2" high-line pipe and water service jumpers ready for transfer.
  - Flush, chlorinate and Bac T test high-line.
  - Transfer all existing private water services to temporary high-line.
  - Performs cut and plug work.
  - Begin water main replacement.

When the new pipe has passed the required chlorination and bacteriological testing, the new water main will be tied into the existing water main. This connection will be witnessed by a certified City employee in compliance with Health Department and City of San Diego mandates.

Upon completion of the tie in work, the existing private property water services will be transferred off of the temporary high-line and on to the new water service that was installed during the water main replacement phase. The high-line will then be removed from service and the temporary cold mix will be cleaned up.

### **6.2.6 Phasing of Design and Construction**

The Project Design phases will be completed simultaneously. The Construction Team will assist with field services during the design to incorporate the necessary field input into the design plans. The construction team will be integrated into the review process to incorporate real world field experience and past lessons learned into the project. The project will be constructed in a linear fashion utilizing the proposed phasing map in Appendix D. Orion will use its experience gained from the successful completion of many water group jobs in similar neighborhoods for the best practices to manage staging equipment and materials in the Public Right of Way. We will efficiently complete the phases of construction with minimal disturbance to the residents prior to moving onto subsequent phases. Each phase will be restored or paved during the mobilization into the next phase. Orion will team with the City resident engineer in order to develop a punch-list for individual phases prior to the completion of the project. This allows the City to take beneficial use of the new facilities and allow the Community to see closure in work areas.



### 6.2.7 Curb Ramp Installation and Modifications

The level of curb ramp design will vary with in-field conditions. Areas with significant constraints will require additional detail compared to the standard curb ramp replacements. Recommendations were developed in this proposal which will be discussed at the kick-off meeting. They will be incorporated in the BOD at the 30 percent design stage. It will include recommendations for ramp placement with justifications. Impediments preventing the installation of a ramp will be documented and depicted with annotated pictures, maps identifying constraints, historic stamps locations, and ADA compliant paths of travel.

An Access Law Design Compliance Memorandum was provided with the RFP. The project team performed field investigations to determine the existing conditions and ramp placement. The findings of the field investigations are shown in Figure 6. The RFP stated that Group Job 1019 and UUP-4J1 would need to coordinate the ADA ramp construction, however, Addendum 1 clarified this and included all curb ramps as part of the Group Job 1019 project. The project will install curb ramps as needed throughout the project in accordance with the City’s curb ramp policy. Existing curb ramps will be removed and replaced to comply with current City standards. Existing curb ramps in compliance with current City’s standards will be protected in place. New curb ramps will be installed in locations that are missing existing curb ramps.

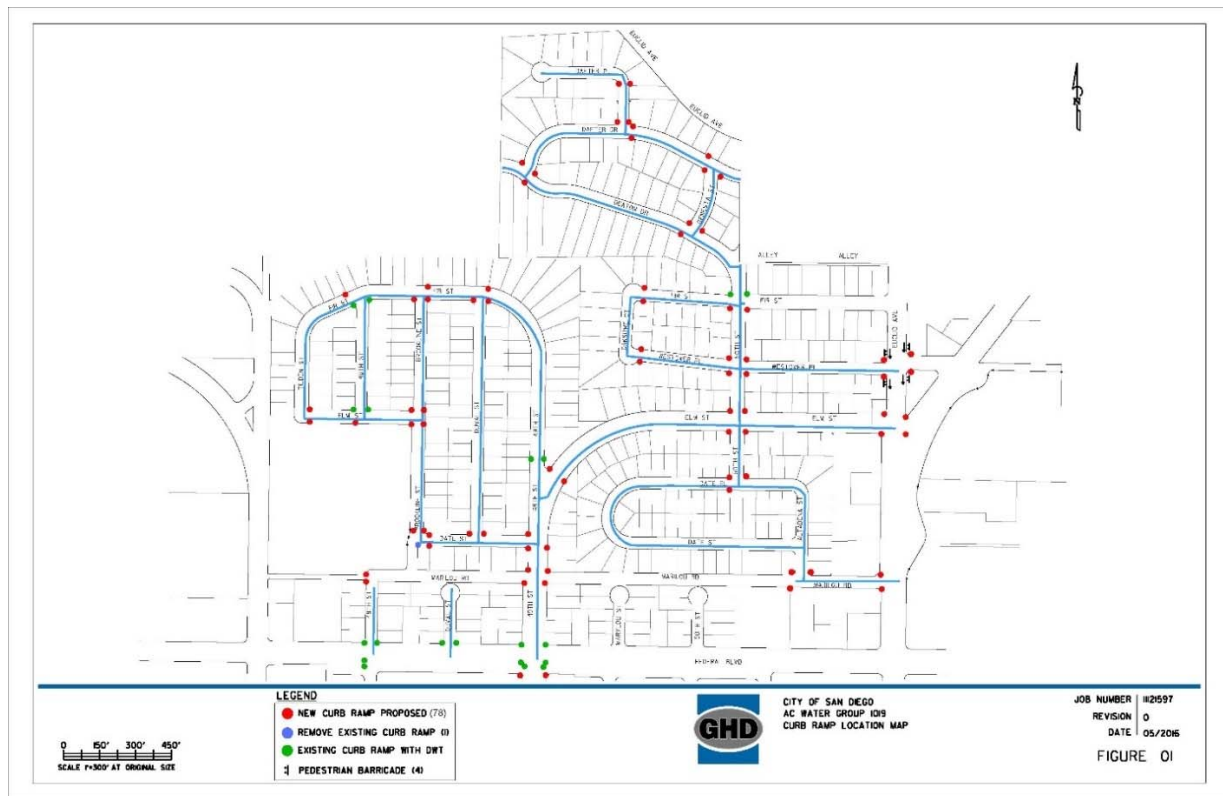


Figure 6 – Curb Ramp Locations



The City has prepared a preliminary assessment of the existing curb ramps within the project area as summarized in bridging document 41.1.1.j, Access Law Design Compliance Memorandum. This memo evaluates all of the existing curbs for compliance or replacement and identifies locations where new curb ramps are required. This memo assumed that the Undergrounding Utilities Program project, UPP 4J1, would replace many of the curb ramps with the project area. However, the City has later confirmed in Addendum No. 1 that the schedule for UPP 4J1 has been changed and the undergrounding project will now follow GJ 1019. As a result, Orion proposes to install all curb ramps identified in the memo where feasible and in accordance with current City standards.

There are no existing curb ramps at the intersection of Westover Place and Euclid Avenue. The memo identifies this intersection as requiring further evaluation. The Orion Design Team performed a preliminary mid-block crosswalk warrant assessment for this intersection and concluded that a pedestrian crossing across Euclid Avenue is not warranted per the City of San Diego Pedestrian Design Manual. Euclid Avenue is a 4-lane arterial road without a raised median and a posted speed limit of 35 mph. The average daily trips (ADT) for Euclid Avenue is over 26,000 per day, which far exceeds the uncontrolled mid-block crossing threshold of less than 12,000 ADT. This intersection is uncontrolled and within 200 feet of a controlled intersection at Euclid Avenue and Elm Street. The proposed crossing distance is 70 feet in length, which exceeds a desired crossing distance of less than 52 feet. Therefore, the Orion Design Team is proposing to install new curb ramps to allow pedestrians to cross Westover Place in the north-south direction and pedestrian barricades to prohibit pedestrian crossing Euclid Avenue in the east-west direction.

<b>Uncontrolled Mid-Block Crosswalk Preliminary Assessment @ Westover Pl. &amp; Euclid Ave.</b>			
<b>Criteria</b>	<b>Requirement</b>	<b>Existing Condition</b>	<b>Warranted</b>
Post Speed Limit	< 30 mph	35 mph	No
Average Daily Trips (ADT)	< 12,000	> 26,000	No
Distance to Nearest Controlled Crossing	>250 feet	< 200 feet	No
Crossing Distance	< 40 – 52 feet	~ 70 feet	No

**6.2.8. Phasing and Coordination with Adjacent Projects**

Orion has identified several projects in the area that will need coordination throughout design and construction of the Group Job 1019 Project. In RFP Attachment E Section 2-14.3, and in further research on the City’s CIP Project Map Viewer, we have planned at a minimum to coordinate with the following list of projects:



Project Name	City Contact	Contact Number
Pipeline Rehabilitation Z-1	Meryl Jimenez	619-235-1977
Pipeline Rehabilitation Z-1A	Meryl Jimenez	619-235-1977
Sewer and AC Water Group 776	Sheila Gamueda	619-533-4244
Sewer Group 743	Daniel Tittle	619-533-7468
Sewer Lateral Rehab J-2	Maryam Liaghat	619-533-5192
Euclid WS Federal to Marliou Bond MS	Daniel Nutter	619-533-7492
Webster Neighborhood Identification	Daniel Nutter	619-533-7492
Residential Project Block 4J1	Jie Xiao	619-533-5496
UUP-4J1	Dayue Zhang	619-533-7409

These projects will be monitored closely for potential impacts throughout the project life. Orion will request the schedules from each of these projects so that field work can be coordinated before there is a conflict. During the construction process, there will be additional coordination with the adjacent projects and City staff to ensure there are no conflicts with Construction Schedules, Traffic Control Impacts, and Community Impacts.

Orion will pay special attention to engaging the local community early in our design phase to ensure that all the residents understand the project phasing within 1019 and how it will relate to the City’s follow on surface upgrade project UUP-4J1 and the streets divisions paving contracts for the poor OCI indexed areas. Group Job 1019 will construct all curb ramps, UUP-4J1 will construct the pavement resurfacing in the overlapping areas per addendum 1, and the City’s street division will pave all areas with poor OCI Indexes. Given the substantial impact to the neighborhood during the water main construction, specific door hangers and large project boards will be prepared for the affected residents explaining the sequence of construction and responsibilities of each of the follow on contracts. This will alleviate concerns regarding the coordination of the contracts from the public’s point of view. Contingency work will be planned and available should any two projects need to be in the same area at the same time, allowing field operations to be relocated efficiently to a new area. This proactive coordination by the Orion field staff will keep the impacts to the residents to a minimum.

**6.2.9 Storm Water Pollution Control Best Management Practices**

The best management practices that have been selected for use on this project will be incorporated into the Water Pollution Control Plan (WPCP). It will be prepared specifically for the site. The project is constructed entirely within existing impervious areas. Typical BMP’s in the WPCP include: storm drain inlet protection devices, silt fences, gravel bag check Dams, straw wattles, concrete wash outs, secondary containment for our sanitary facilities, solid waste management, equipment main and fueling protection, wind protection, stock pile covers, and any other items required by the specific weather conditions.

**6.2.10 Subsurface Investigation and Geotechnical Work**

The project is a replace in place project. The geotechnical needs will be minimized using this approach. Orion will also enlist the sub-consultant SCST to provide additional geotechnical investigation as needed. Orion will also maximize the use of in-house geologic and geotechnical data from existing reports in the nearby area.





The proposed Geotechnical services will include:

- Reviewing readily available published and in-house geotechnical literature, groundwater data, topographic, geologic and fault maps, aerial photographs, and the City of San Diego's Seismic Safety Study.
- Obtaining City of San Diego encroachment permits, traffic permits, and approval of traffic control plans for field investigations.
- Coordinating and mobilizing for the subsurface exploration as needed. Mark-out of existing underground utilities will be conducted through Underground Service Alert.
- Perform subsurface exploration to consist of drilling, logging, and sampling of borings with a truck-mounted drill rig with hollow-stem augers as needed. The borings will be drilled to adequate depths (or refusal). In-place and bulk samples will be returned to the laboratory for testing. The borings will be backfilled with in accordance with County of San Diego DEH requirements.
- Laboratory testing of selected samples to evaluate geotechnical design parameters will be performed. Laboratory testing will include in-place moisture content and dry density, particle gradation (sieve analysis), shear strength, and corrositivity (pH, electrical resistivity, chloride content, and sulfate content).
- A geotechnical report will incorporate our findings, conclusions, and recommendations for the project.

#### **6.2.11 Proposed Design Schedule**

See Overall Project Design and Construction Schedule in Appendix E.

#### **6.2.12 Quantity Estimates**

We estimate the following quantities needed to complete the project:

1. Additional Bedding 10 CY
2. Imported Backfill 20 TONS
3. Asphalt Pavement Repair 1500 SF
4. Additional Curb and Gutter 400 LF
5. Additional Sidewalk Removal and Replacement 1600 SF
6. Additional Pavement Removal and Disposal 10 CY



## Section 7: Construction Plan

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### 7.1 Proposed Construction Plan

The construction plan for the Group Job 1019 design-build project is based on the Orion team's complete understanding of the project goals, as well as, our knowledge and neighborhood-specific experience executing design-build projects involving waterline replacement. To address the level of effort involved in the design-build process for this project, the Orion team will complete a detailed Design and Construction Schedule along with 3-week look ahead schedules to monitor and keep the project on track.

Orion will operate as the Design Builder, accepting full responsibility for the overall design, construction, quality, cost, and schedule. The single point of contact for the city staff will be our Project Manager, Mark Dowsing. To properly manage this design-build project, Orion will maintain control of the schedule and procurement as described in this document. Orion will implement an aggressive quality assurance/quality control program for all phases of design, construction, permitting, and commissioning, led by Heidi Andrews.

All major correspondence between team members will be routed through Mark Dowsing. This communication structure allows Mark to monitor the progress of each construction task within the project scope and keep the project on task while taking the necessary steps to stay on schedule. Our full time Construction Manager, Ryan Danielson, will be onsite daily and will be responsible for the overall construction and safety of the project. Our experienced full time superintendent, Scott Vargas, who has previously completed numerous City group sewer and water main replacements, will lead the project craft workers.

#### 7.1.1 Construction Approach and Methods

The construction approach follows the guidelines set forth in the RFP and provides enhancement where applicable to minimize the impact to the surrounding neighborhood while constructing in a safe, clean, and efficient manner. Two major construction phases have been identified for the project.

The following crew types will be on site during this project:

- Design Pothole Crew
- High-line Crew
- Water Installation Crew(s)
- Sewer Installation Crew(s)
- Asphalt Paving Crew
- Concrete Placing Crew
- Cleanup/De-Mob Crew



The equipment has been selected for the range of construction activities and constraints on the project. A listing is as follow for the project:

- Vacuum excavator truck (for potholing operations and sewer bypass emergencies).
- Asphalt zipper (asphalt demolition).
- Concrete saw cutting equipment (concrete removal).
- Zero clearance excavators: Caterpillar 321, 314, 307, and 305 (excavation and backfill).
- Rubber tire loaders: Caterpillar 950, 938, 930, and 914 (spoil and material handling).
- Compact skid steers loaders (tight material handling/street sweeping).
- Rubber tire backhoes: Caterpillar 416 and 446 (excavation, backfill, demolition, and material handling).
- APCD compliant sweepers w/PM10 filters (street sweeping).
- Water trucks 500-4000 gallon (dust control, backfill moisture content, temporary holding tanks).
- Heavy trucks: 10 wheelers, super 10's, boosters, end dumps, side dumps, equipment haulers.
- Compaction equipment – Smooth and Sheeps foot compactors, wacker tampers, vibratory plate.

Prior to starting field work, the pre-existing conditions will be professionally videoed, fully documented, and the video will include the mark outs from Underground Service Alert USA, the later for record purposes. Base mapping and potholing will occur in this phase to obtain the horizontal alignments for the 30% design. The Community Relations plan is prepared prior to submission of the 30% design. A Project and Plan presentation will be made to the community to engage stakeholders and obtain input early in the process all before the 30% is finalized. Material submittals and the WPCP will be completed during the 60% design. 100% and final designs will be in accordance with the RFP including Attachment A Section 42 Supplemental Requirements.

Orion will utilize its local experience by fully implementing the latest Greenbook and Whitebook standards in the project. Orion's long working history with both the City and the designers will allow it to incorporate any requirements and nuances of the City Water System into the design early in its concept. Orion intends to follow the requisite codes, standards, and details outlined below:

#### *Water Systems*

- Pipe Bedding and Trench Backfill for Potable Water Mains, per SDW-110.
- Thrust Blocks and Anchor Installations, per SDW-151.
- Gate Wells and Valves, per SDW-152 through SDW-154.
- Fire Hydrants, per SDW-104.
- Air Valves, per SDW-158 through SDW-160 (as appropriate).
- Blow Offs, per SDW-143 through SDW-146 (as appropriate).
- Water Services, per SDW-149 through SDW-150.
- Meter Boxes, per SDW-134 through SDW-137.



### **7.1.2 Plan for Operation of Facility during Construction**

Orion is experienced in all of the utility types prescribed in the RFP. Orion has a large inventory of owned high-line pipe and fittings, temporary pipe, and equipment available that will ensure the full time operation of each individual City facility or pipeline throughout the course of construction. Orion will take all precautions necessary to ensure that no damage or unscheduled shutdowns occur to any adjacent facilities including: piping, utilities, traffic signals, and roads. Underground Service Alert will be contacted for verification and location of all utilities and will maintain notification current throughout the project. Construction operations will be coordinated to ensure efficient and orderly installation of each phase of the work in a sequence that will obtain the best results and the earliest completion each phase and that of the overall project. We will have the correct sizes of repair couplings and pipe on hand for fast repairs resulting from unintended emergency utility strikes. They will be stocked onsite, the final quantity and selection is based on a review of the as built drawings and input from City field operations staff.

A closely coordinated high-line and cut/plug plan will be crucial to the success of this project. Prior to the transferring of water services or shutting down water mains, Orion will provide notices to all affected businesses and residences. 24-48 hours before the shutdown, Orion crews will go door-to-door through the affected areas and provide final notices. Fire protection will be coordinated with the fire marshal, as required.

### **7.1.3 Plan for Phasing of Construction Activities**

The project consists of 2 major phases of work as shown in the Phasing Map Figure 7. Once the water is completed, the work crews will move onto the next sequence of work: site upgrade, pedestrian ramps, slurry seal/ AC overlay, and general project close out activities, leaving a completed in-use phase for the public. The phases will consist of the following items:

#### *Mobilization*

Local yards will be set up to support group job 1019. Equipment as listed in 7.1.1 will be mobilized to the yard. Additional BMP materials will be staged in the event of an unplanned storm. Orion's fleet of heavy haul trucks can accommodate the resident and commercial business concerns throughout the project when mobilizing to each of the phases.

#### *Watermain Replacement*

Specially trained crews will excavate and replace in place the existing AC water mains. They will select the proper sized equipment and carefully select haul routes to minimize impact to the community. Crews will excavate, install, and backfill each day to minimize the use of long runs of trench plate. The AC pipe removed will be handled by certified tradesmen and carefully packaged for disposal. Some of the waterline replacement may be handled by the SLBE/ELBE firms selected. These firms will be in direct control of their work with Orion providing additional resources and supervision needed for a safe and successful project.

#### *Service Appurtenance Installation*

Once the mainline has been completed, appurtenance crews will install the fire hydrants, air vacuum valves, blow offs, and water services. These services will be installed utilizing open trench construction and trenchless construction such as; directional drilling, displacement moles, and hand tunneling.



*Street Resurfacing*

Street resurfacing will be in conformance with the latest City Standard SDG107. Asphalt placement will be by Orion and SLBE/ELBE firms. These work items will be coordinated with our SLBE/ELBE curb ramps firms such the sequence minimizes downtown and re-establishes the public right of way for the residents.

*Final Close Out*

Once the surface improvements have been completed, Orion will remove the pavement USA mark-outs and perform a detailed site cleanup. The as-built process will document all known and unknown utilities as well as any changes from the drawings during the construction phase. As built information will be updated in real time and provided in micro-station to the City at the end of the project.

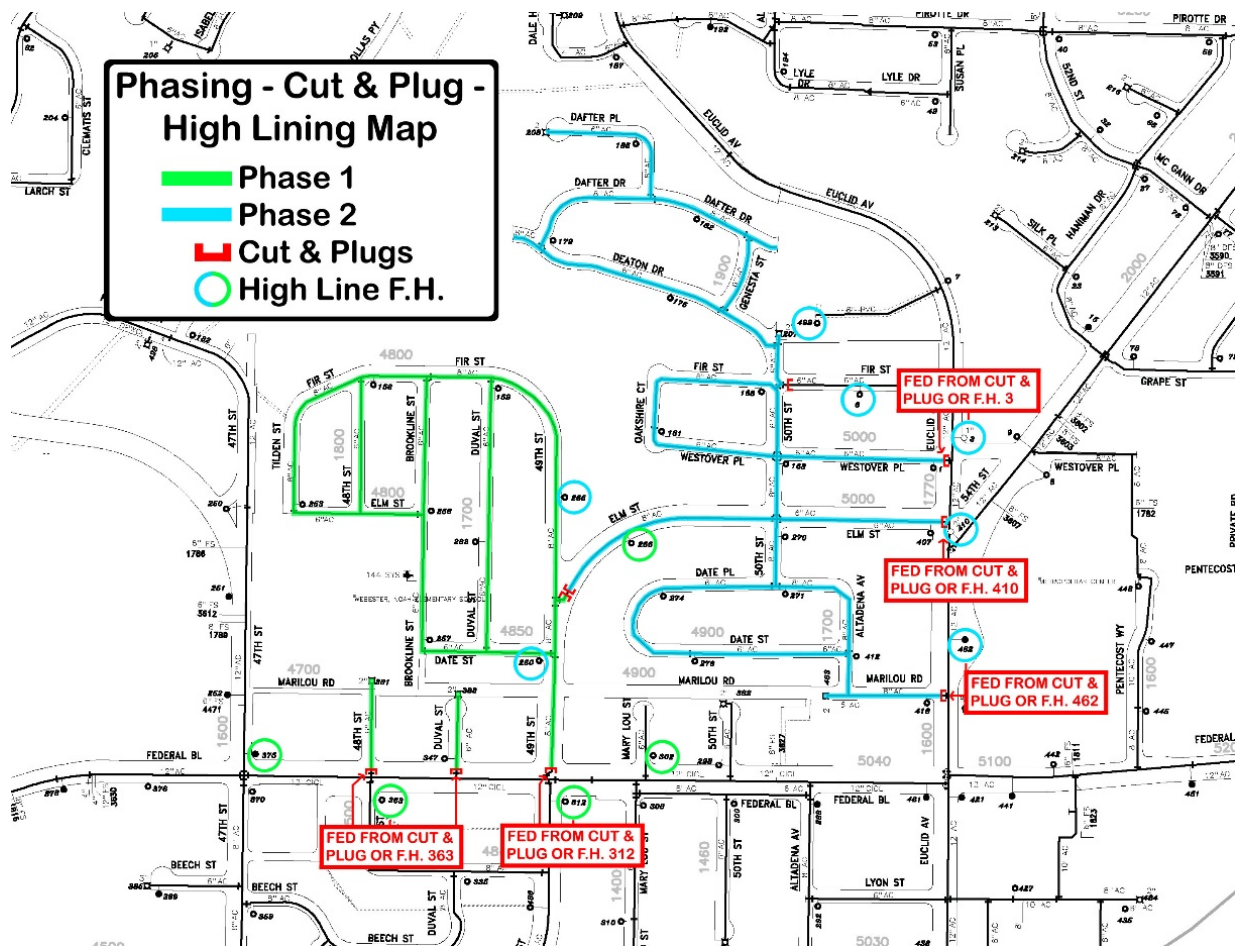


Figure 7 – Phasing Map

The phasing is also described in the design and construction schedule located in Appendix E.

**7.1.4 General Plan for Functional Testing and Start Up**

Orion will test each section of replaced water main to the city standards included in the White Book Section 306-1.4.5 Water Pressure Test. Flushing and chlorination will proceed in accordance



with AWWA C651 and State Health Department Requirements. We will exercise special care in flushing chlorinated water, so that all flushing water is de-chlorinated prior to discharge utilizing de-chlorination devices and tablets. The discharge water will be compliant with the Regional Water Quality Control Board Order No. R9-2013-0001, R9-2015-0001, and R9-2015-0100. Orion will coordinate and schedule final laboratory testing of the pipeline with City Staff. Once the City certifies all bacteriological tests (bac-t) have passed, each section of water main will be tied back into service within 15 days.

Repairs during the one-year warranty period will be Orion's responsibility. As in the past, Orion will support City staff in their investigations of potential defects and provide assistance to identify their causation and apportionment of liability. With over 25 years and numerous successful projects with the City, warranty repairs in or out of the contract warranty period have always been dealt with to the City's satisfaction with prompt attention to minimize liability from third parties.

### **7.1.5 Proposed Safety Program**

The Orion team will prepare a written site-specific Safety Plan/Illness and Injury Prevention Program for submission to the City prior to start of construction. Our Safety Plan will include all applicable requirements of CAL/OSHA. Our Safety Manager will consult with our Superintendent to define the scope and sequence of work, and will develop specific Job Task Analyses (JTA's) to identify the sequence of events, associated hazards, and implement control measures. These are then used as training tools to educate the field team in onsite safety as it relates to them.

Along with the JTA's that guide safety of the construction crews, the safety of the public is a key factor in planning a safe job site for this project. Public safety will start with the community outreach process so the project team understands safety concerns coming from the neighborhood. Important safety items that we have planned for in our proposed construction:

- Clearly identify pedestrian traffic and walkways around work zones.
- Bicycle Safety and alternative safe passages around the work zones for cyclists.
- Resident safety and safe travel to and from driveways.
- Traffic safety around the work zone through residential neighborhoods – including access for home deliveries and trash pickup.
- Special attention will be taken in addressing continued access for special needs residents.
- Coordination with adjacent projects so conflicts do not impact the public safety.

During our site visits, we were able to reach out to interested neighborhood residents and begin the process of community involvement. What was very evident was the lack of existing paved sidewalks and pedestrian ramps in some areas was forcing wheel chair bound people on to the street to get around their neighborhood. This was a real concern to residents and poses the project with some specific construction access challenges that we will address in our site-specific safety plan.

Orion will utilize planning/scheduling meetings with field staff and subcontractors to review the safety strategies, review JTAs, identify possible hazards, and coordinate work activities. Informal



meetings are used at the beginning of each day for supervisors to emphasize safety topics relative to the days scheduled work, using the JTAs as a training tool.

Personal protective equipment is provided to all workers in compliance with all OSHA regulations. The use of high visibility safety vests, ANSI approved hard hats, safety glasses, gloves, and work boots are the minimum PPE required for construction activity.

New employees receive a safety orientation and training prior to starting work. Apprentices receive special attention because of their relative unfamiliarity with the overall construction process. We have found that utilizing these practices encourages long-term employees to assist new employees in the safety practices of the company. We also designate a key craft worker on the job as a “safety monitor” responsible for assuring safe working conditions. This individual is empowered to correct any deficiencies in safe work practices.

Additionally, all of our project managers, engineers, superintendents, foremen, and crew leaders receive regular training in all aspects of safety such as fall prevention, scaffolding, hazardous material, traffic safety, rigger training, trench protection, and confined space.

#### **7.1.6 Proposed Emergency Response Plan**

Prior to the start of construction, Orion will develop and submit to the City, for review and approval, a project specific written Emergency Response Plan. Orion will observe and comply with the City’s policy of zero hazardous material spills. The Emergency Response Plan shall be developed to respond to any construction related spill(s). This plan will include identification of all nearby environmentally-sensitive areas such as waterways, channels, catch basins and entrances to existing underground storm drains that could be impacted.

An emergency response unit will be stationed near the job site. It is comprised of equipment and trained personnel to be immediately dispatched in the event of a spill.



Figure 8 – High-lining on a Residential Street

The emergency response unit can be dispatched to the site 24 hours a day 7 days a week including weekends and holidays. Orion will designate primary and secondary representatives with their respective phone numbers, and mobile phone numbers. Orion’s representatives will be accessible and available at all times to respond immediately to any spill event.



In the event of a utility strike, Orion will:

- Secure the area, block access to all unauthorized people.
- Notify the utility.
- Provide a support role to the utility company repair people upon arrival.
- Note: Orion Construction has personnel available 24/7 in the event of emergency utility issues. Orion will keep an on-site assortment of various size pipe repair couplings in case of such an issue.

Pre-planning:

- Perform a JHA (Job Hazard Analysis) for each expected utility emergency.
- Know where shut-off valves (if applicable) are for each utility.
- Locate utility as best as possible before digging.

Orion is also a listed Emergency contractor for the City of San Diego and our crews will stay and assist at the City's request during any utility type emergency where our services can be useful or we can prevent further damage to the surrounding areas.

#### **7.1.7 Water High-lining Plan for Each Site**

Prior to construction, Orion will develop a high lining plan based on the available as-builts and site investigations. Orion will execute the high lining plan, Cut and Plugs, and Tie-ins in accordance with the City guidelines. The final location of the new waterlines will determine the total affected services requiring high-line.

Orion has prepared a preliminary phasing and cut/plug plan. It shows the fire hydrants used as the feed locations for the high-line as the water lines are replaced. See Appendix D for the Cut and Plug Map.

A 2" high-line will be placed along the curb and gutter typically down both sides of the street to feed the existing water meters. Driveway crossings are covered with AC cold mix ramps so that cars can pass over the high-line safely. At locations where the high-line crosses the street, it will be placed in a shallow trench. Pressure rated hoses are used to turn around tight corners or radius turns. Orion designates an on call person after hours with a repair truck for quick response in the event of a break or emergency repair.

#### **7.1.8 Phasing of Design and Construction Work of Each Site Separately**

Through the 30%, 60%, and 100% submittals, the team will closely coordinate with the City to confirm that each phase is functional as designed. The phases will later be constructed separately according to the phasing plan as outlined above. At the option of the project, specific sections may be eligible for construction during the 60% phase in accordance with the white book. These sections will be noted as Early Start Packages (ESP's) in the design submittals. Upon acceptance of either the ESP or 100% design packages, coordination will be held between the City, Agencies, and Community Stakeholders prior to moving into the Construction Phase.

During the construction phases, Orion will utilize experience and judgement in staging and storing of equipment and material in the Public Right of Way. Orion will be mindful, so that no area of





the community is impacted more than the others. Each area will be restored or paved during same phase so that areas can be completed quickly, minimizing public impacts. This is in accordance with the RFP documents.

### **7.1.9 Proposed Construction Schedule**

Please see Appendix E for Project Schedule.

### **7.1.10 Traffic Control Management**

See Section 6.2.2 for Traffic Control Management Plan.

### **7.1.11 Community Impact**

Orion is the City's liaison to the public. We take a proactive approach to community outreach in reaching out and soliciting feedback during the bid and design phase. Additionally, Orion provides ample notification prior to construction activities resulting in fewer impacts to the residents, businesses, and commuters. During construction, Orion will notify the community of all construction related events by way of mailers/flyers passed out to individual homes and businesses. The community will be further updated by regular updates to the City website. Orion and our exclusive community liaison firm, Humanability, will participate in all local community planning groups and associations. Individual calls and complaints will be resolved in real time with updates to all City council area representatives.

Homeowners will have driveway access at any time throughout the day. In the past, Orion has had crews individually place trash cans on the street during trash pick-up day and move steel plates in order to facilitate special access to business and residential driveways. These are examples of how Orion works to keep community impacts to a minimum and have a solutions based approach to impacts arising during the course of the project. This approach keeps the community informed and works well to mitigate questions and complaints.

## **7.2 Project Coordination**

Project coordination will remain consistent throughout the design and construction phases, both of which benefit from the Design-Build approach since the designer and contractor project staff are actively involved in both phases. With the construction personnel involved from the very outset of the design, Orion ensures the maximum level of coordination between the design and field construction teams.

### **7.2.1 Coordination Process**

The first step to efficient and effective coordination is to focus the line of communication on as few people as possible and hold these people accountable for the vertical communication throughout the team. This system allows each team member to know: exactly to whom they report, what level of decision making authority they possess, and what information is to be included in their reports. The second key element of this system is redundancy at each team level so critical communication or coordination items are not delayed due to the unavailability of the primary contact at a given moment.



The Orion management team for this project has been assembled to function in this manner. All communication between the City and the Orion team will be through Mark Dowsing who will serve as the primary contact. Once the project is awarded, Orion will hold a Design-Build partnering/kick-off meeting. The goal of this meeting is to ensure that each team member from the City and Orion is personally acquainted with each other and that all expectations are clearly understood. During this meeting, the goals of each team will be discussed and the critical aspects of the project will be outlined. Minutes of this meeting will be prepared and distributed to all attendees for review and comment. Follow-up sessions may be scheduled as well, on an as-needed basis. The Construction Manager, Ryan Danielson, will be responsible for all daily construction activities and coordination on the project. He will be utilizing a three week look ahead to plan each activity and coordinate with residents, subcontractors and craftsman to sequence the work to minimized impacts to residents.

### **7.2.2 Coordination with Government Agencies and Other Entities**

Prior to the start of construction, Mark Dowsing and Ryan Danielson will personally coordinate early start activities with appropriate government agencies and entities such as transit, fire, police and waste disposal. They will share the project schedule and three week look ahead with these agencies to identify potential impacts and determine any project specific requirements not previously identified. During the preparatory phase, the work zones are delineated. Underground Service Alert is used to coordinate with the other utility owners while Orion's local community knowledge is used to identify neighborhood conflicts. This preparatory phase allows the City and Orion adequate time to respond to any site nuances. Once all affected parties have been notified and concerns resolved, the initial phase work begins. During this initial phase, Orion will be working closely with Water Operations to ensure the community's water needs are met in an efficient manner. Follow-ups to the identified stakeholders will be used throughout the construction to ensure all parties are satisfied.

### **7.2.3 Design Coordination System**

Heidi Andrews, as Project QA/QC Manager, and Ryan Danielson, as the Construction Manager, will coordinate with Mark Dowsing to develop the project design and construction management plan. It will include the: Project Quality Control Plan, Basis of Design Report and Design Criteria, Communication Protocols, Permitting Plan, Construction Submittal Registry, and Design Submittal Review Process. The submittal registry will be used to confirm that the construction material submittals are in conformance with the construction documents. During the design phase, Orion will call for utility mark outs and perform potholing to minimize potential conflicts during construction. At the start of construction, Ryan will call for a second utility mark out to ensure that no new utilities have been installed during the design phase. During construction, Ryan will keep accurate records to confirm conformance with the design drawings and provide accurate as-built drawings.

### **7.2.4 Q&A Tracking System**

Orion will keep a detailed account of all field changes in a redline markup set of drawings and specifications. Questions and Answers through the Construction process will be managed by Heidi Andrews and documented and tracked as RFI's as a continuation to the Design development process in order to have a complete record through the life of the project. The RFI tracking and



response log will be reviewed with the City at the weekly construction meetings. All design changes will be incorporated into the as-built redline construction set.

Any questions resulting in design changes or a change in specifications will be drafted by the Field Team and reviewed by the DOR for submittal to the City. Once RFI's have been submitted to the City, they will be tracked on the project log. All responses will also be tracked on the project's redline markup as-built set. This red-line set, along with final as-built drawings, will be submitted to the City at the completion of construction.

### **7.2.5 Subcontractor Coordination System**

The approach to executing the Group Job 1019 project will be divided between the preconstruction phase and the construction phase. The project team and subcontractors presented in this document will be responsible for performing in both phases of design build services for this project. In compliance with the City ECOP program and in an effort to continue to partner with local small and emerging local subcontractors, our coordination system begins at the time of bid preparation. This process pairs the best suited subcontractors with work that they can perform to or above City Standards within the project timelines.

Prior to construction, Orion will issue subcontracts, verify that insurance and bonds meet specification and provide work schedules to the different subcontractors that provide proper notice as to when each of the individual trades will be scheduled to be on site. Prior to mobilization, and during construction, we will require the subcontractors to participate in our weekly production meetings.

As construction proceeds we will work closely with our small business/ sub-contractor partners, to ensure that they can stay current with all of the City administrative reporting requirements. This relationship helps our sub-contractors avoid any payment delays ensuring a smooth project from start to completion.

### **7.3 Critical Path Schedule**

The Orion team will use Primavera Project Planner (P6) to develop and manage the Project CPM Schedule. The project CPM schedule will serve as a base line schedule from which work progress will be measured. Included in the CPM schedule, all Project Milestones set forth in this RFP will be identified, this includes critical activities that Orion anticipates performing and coordinating with others to complete the Project prior to the Final Completion Date. The schedule has a final completion date 900 working days from NTP. The 30%, 60%, 100%, and Final design phases are shown as well as the City review and approval times of 20 working days for each phase. Included in the 100% design phase is the City plan check review.

Orion will conduct weekly progress meetings and utilize a three-week look ahead schedule as the primary planning tool. These schedules will identify areas of immediate schedule concern and their critical path impact. If the critical path is impacted, Orion management staff will immediately evaluate the situation and all resources (labor, equipment, material, productions, etc.), to determine the underlying issue. If acceleration is required, resources can be mobilized to get the project back on schedule.



Our overall Phasing and Schedule philosophy is one that minimizes impact to the community and the project in the following ways:

- Shorter time durations for major traffic control closures or detours.
- Shorter time durations for heavy equipment in ROW exposure (in front of residences).
- Minimize time required on Site by City Forces Personnel (possible availability of multiple contractor crews performing multiple tie ins to maximize City crew supervision time).

Appendix E provides a summary level critical path schedule.

## 7.4 Challenges/Issues

### *Webster Community Mural: Intersection of 49<sup>th</sup>/Date Street*

A community mural was painted by the students of Webster Elementary at the intersection of 49<sup>th</sup> and Date Street during the One San Diego event held last Thanksgiving by the Mayor Kevin Falconer. The new water line will be constructed under the mural with the AC pavement replaced using the standard SDG107 resulting in the removal of the mural. Therefore, Orion documented the mural for future replacement. Orion understands the importance the mural to the community and following construction, another event will be held to restore the mural to its pre-construction state. Orion will be on hand to provide the necessary materials and guidance to the residents and students in the restoration of this community landmark.



Figure 9 – Webster Mural

### *Intersection of 49<sup>th</sup> and Elm Street*

The Access Law Design Compliance Memorandum Figure 18 (Elm Street and 49<sup>th</sup> Street) proposes moving the stop limit from its current spot approximately 15' back to accommodate the construction of a new ADA ramp and crosswalk. Orion reviewed the sight lines in the field and found the Memo would create a blind spot for traffic heading south on 49<sup>th</sup> through the intersection. Orion proposes to keep the current stop limit and provide an additional limit per Figure 10. This allows ADA access and sight lines for vehicles at all points on the intersection.



Figure 10 – Intersection of 49<sup>th</sup> & Elm St.

### *Follow On Contracts for Surface Improvements*

With the surface improvements spread over three contracts; Group Job 1019, UUP-4J1, and the Street Division's future paving contracts; coordination and community outreach will be critical. Group Job 1019 will complete all curb ramps, UUP-4J1 will complete all street improvements in OCI Index areas rated Good (70-100) and Fair (40-70), and the Streets Division will overlay all poor OCI Index areas (0-40). A substantial community outreach will be conducted by Orion to educate the residents on the responsibilities of each of these contracts. Large project map boards



will be prepared, clearly identifying the sequences and showing the community that the City staff has achieved the maximum value to its end users by proactively splitting up the work without overlapping the scopes. During this process, Orion will remain flexible in both the design and construction phases, to ensure that no scope is missed between the City's follow on projects.

### 7.5 Cost Savings Measures

Orion has reviewed the RFP, bridging documents, and City guidelines and found cost saving measures which have been included as part of this proposal. Orion met with local residents during our site visits. During one of the visits two residents were interviewed for their concerns on the neighborhood. Mr. Dairie Bowden and Ms. Myra Wilson, both expressed concern with the existing condition of the sidewalks and pedestrian access in the neighborhood. Mr. Bowden showed Orion's team the eastern portion of 50<sup>th</sup> Street near the Fir intersection which lacked sidewalk for the residents. This forces disabled residents to use the street for wheel travel paths of travel. This occurs with such frequency that it was witnessed multiple times during Orion's pre-bid field walks. An example of the lack of access impacting disabled neighbors is shown in Figure 11, where the wheel chair is required to travel in portions of street. As a betterment to the project Orion could install sidewalk, curb, and gutter. This would provide an immediate benefit to residents, giving them safe paths of travel, while simultaneously reducing the cost of future ADA enhancement projects by completing it in sequence with the Group Job 1019 work.



Figure 11 – Pedestrian Access: 50<sup>th</sup> St.

### 7.6 Community Outreach and Public Relations Program

The Orion/Humanability team will implement a multi-faceted approach to community relations for the project, built upon the foundation established by the City of San Diego WHITEBOOK, 2015 Edition 7-16. We will develop a community relations plan to specify targeted stakeholders, key messages, deliverables, and timetables. It will incorporate materials for the City's website, public notices, tracking of inquiries, comments and concerns, presentations to the Community Planning Group, preparation of media items, participation in project team meetings, and regular project updates via newsletter, website or Email to key stakeholders. Orion/Humanability will identify community events that will be analyzed with the team to determine whether a presence at the events will help increase community awareness of the project or facilitate completion of the project. The team will contact project managers for concurrent public construction projects and organizers for events occurring during the construction window, to facilitate coordination and minimize impacts.

AC Water Group Job 1019 is located in City Council District 4, in the Webster Neighborhood of the Eastern Communities Planning Area. The project area is characterized by a mix of commercial, industrial, and residential properties, and is home to the Webster Elementary School and the Tabernacle Christian Academy. Project impacts include noise, dust, traffic delays, and lack of parking. Activities will most impact properties within a 300-foot radius of project alignments.



The team has conducted an exhaustive survey of location specific data for the project, thoroughly documenting all potentially impacted community resources. The most likely areas for high impacts to traffic are along and at intersections with Federal Boulevard, as the Boulevard is the primary route in and out of a high traffic industrial area. This area has no other access except by a circuitous route using the frontage road to Highway 94.

Orion and Humanability are prepared to address the community's needs from day one. We will work closely with City staff to determine whether materials need to be translated from English into other languages, and where to target in-person and small group outreach. This coordination with the neighborhood will ensure a successful project for the City and the residents of Webster.

## **7.7 Community Coordination**

The team evaluated the project and will honor the moratorium listed in Section 6 of the RFP. This moratorium will be completed by August of 2016 and will not impact the construction of Group Job 1019.

Outreach materials to the community will reflect the project schedule and door hangers will be used to keep the community informed when work resumes. The team intends to explore summer work near the impacted school: Webster Elementary. This would allow Orion to reduce both traffic and operational impacts by completing work while the school is not in session.

Our crews and office staff will communicate with the residents and businesses in the area in order to incorporate their needs into our Community Relations plan. All concerns will be tracked and logged to ensure coordination is consistent throughout the course of the project. This log will be updated on the Project Website and dedicated Project Facebook page.

The project specific web page can be seen in Appendix F or at: <http://orionconstruction.com/the-city-of-san-diego-ac-water-group-1019/>.

## **7.8 Staging Area and Project Clean Up**

During construction in residential neighborhoods, Orion locates staging areas that cause the minimum amount of disruption and are the least visible to the community. Staging areas are kept clean and only include the necessities for the given area. Once completed, the staging area is thoroughly cleaned and moved to another location in the neighborhood so that one community member does not have the staging area near their home for the whole duration of the project. Orion will coordinate with the city resident engineer to make sure that the proper permits for trailers and stationary equipment are in place.



### *Laydown Yard*

During the initial site investigations, a laydown yard was identified on Marilou Road between 48<sup>th</sup> and 49<sup>th</sup> Street (see Figure 12). The unpaved area is large enough to accommodate a laydown yard, while still allowing sufficient room for traffic safety. This area will be used for construction staging on both phases of the project.



Figure 12 - Laydown Yard

### *Project Clean-up*

Once the work is completed in a given phase, we will perform a complete cleanup of that phase consisting of:

- Clean up and removal of all stockpiles.
- Clean up and removal of all trash (construction and lunch), daily.
- Relocation of equipment to subsequent phase.
- Removal of USA mark outs.
- Final asphalt and pavement restorations.
- Removal of all traffic control, cones, and signs.

## **7.9 Residents and Visitors**

The Orion/Humanability team conducted an extensive survey of location data for the project and thoroughly documented residential districts, business locations, sensitive environmental and recreation areas, schools, parks, and other potentially impacted resources.

Traffic is likely to be impacted at Webster Elementary and the nearby FedEx Shipping Center. The project will also impact a number of small businesses, single family, and multi-family residential properties. The greatest impacts will occur at the industrial facilities West of the project.

Civic Leaders with interest in the project include Mayor Kevin Faulconer and Katherine Johnston of the Mayor's Office, and District 4 City Council Member Myrtle Cole, as well as her Eastern Area Community Representative Matthew Gordon, and Marc Meyer at the District 4 Office at Tubman Chavez Community Center. The team will also present project information to the Eastern Area Community Planning Group, chaired by Laura Riebau.

Key stakeholders within a half mile of the alignment include Webster Elementary School, Tabernacle Christian Academy, Holly Drive Leadership Academy, Bethel Baptist Church, Pilgrims Progressive Baptist, People's Church San Diego, and The Anchor San Diego Church. The project will directly impact Sunshine Park and Metro Transit Routes 13, 916, 916 and 955. Yasuda Tree Nursery, Groundworks San Diego, and Anderson-Ragsdale Mortuary are directly on the alignment, and the team has identified 15 large stakeholders in the area likely to be impacted by access to Federal Boulevard.



As part of our proposal preparation, the Orion/Humanability team has identified the following schools, religious centers, and public buildings that will be affected by the project and will require continued coordination throughout the construction of the project:

Schools	Public Facilities
Webster Elementary School	Tubman Chavez Community Center
Tabernacle Christian Academy	Yasuda Tree Nursery
Holly Drive Leadership Academy	Extra Space Storage
Religious Centers	Public Spaces
Bethel Baptist Church	Sunshine Park
Pilgrims Progressive Baptist	Anderson-Ragsdale Mortuary
People's Church San Diego	
The Anchor San Diego Church	Transit Routes
New Harvest Christian Fellowship	Bus Routes: 13, 916, 917 & 955

### 7.10 Construction Mitigation Plan

Our Construction Mitigation Plan begins with hearing the concerns and needs of the community as outlined in the Community Outreach and Coordination plans. Unobstructed access to the surrounding businesses and residents is the priority concern. This can be accomplished by the use of trench plates across driveways or carefully planned excavations that only shut down half of a driveway at one time, always leaving access in and out. While working in these areas, only minimum necessary equipment and staging will be used. All other equipment will be staged out of other yards in San Diego County. This will keep the reduction to street parking to minimum. With parking at a premium, we plan to post our “No Park” notices on schedule and keep them updated daily as necessary. Workers park up to two blocks away in order to keep their vehicles away from the construction area and free up available parking for residents. Stockpiles will be kept to what is necessary for the work shift that day and all demolished material or excavated dirt will be hauled off the street the same day. This keeps parking free and the community clean during construction.

As noted in the Construction plan section, Orion will use “Zero Clearance” Excavators that do not have conventional counterweights. This will keep the traffic control lane closures as tight as possible. Other size appropriate equipment from the Orion fleet will ensure that the site impact will be minimized. This is another Orion advantage, Orion’s fleet of company owned equipment ensures that we can always select exactly the right piece of equipment for the job. Another key to our Construction Mitigation plan is our employees. We train our employees in customer service and ask that they treat every community that they work in as if it was their own. This training coupled with rewards for good behavior and crew letters of recommendations from the community or residents provides a path to success on project after project for the Orion teams.



## **Appendix A -ECOP**



**THE CITY OF SAN DIEGO**  
**EQUAL OPPORTUNITY CONTRACTING**  
 1010 SECOND AVENUE, SUITE 500  
 SAN DIEGO, CA 92101  
 PHONE (619) 533-4464 • FAX (619) 533-4474

**WORK FORCE REPORT**

The objective of the Equal Employment Opportunity is to ensure that contractors doing business with the City, or receiving funds from the City, will not engage in unlawful discriminatory employment practices prohibited by State and Federal law. Such employment practices include, but are not limited to the following: employment, promotion or upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation and selection for training, including apprenticeship.

**NO OTHER FORMS WILL BE ACCEPTED  
 CONTRACTOR IDENTIFICATION**

Type of Contractor:  Construction     Vendor/Supplier     Financial Institution     Lessee/Lessor  
 Consultant     Grant Recipient     Insurance Company     Other

Name of Company: Orion Construction Corp./Balboa Construction Inc. J.V.

ADA/DBA: \_\_\_\_\_

Address (Corporate Headquarters, where applicable): 2185 La Mirada Drive

City Vista County San Diego State CA Zip 92081

Telephone Number: (760) 597-9660 Fax Number: (760) 597-9661

Name of Company CEO: Richard Dowsing/Fia Dowsing

Address(es), phone and fax number(s) of company facilities located in San Diego County (if different from above):

Address: \_\_\_\_\_

City \_\_\_\_\_ County \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone Number: ( ) \_\_\_\_\_ - \_\_\_\_\_ Fax Number: ( ) \_\_\_\_\_ - \_\_\_\_\_

Type of Business: General Contractor Type of License: A & B

The Company has appointed: Richard Dowsing

As its Equal Employment Opportunity Officer (EEOO). The EEOO has been given authority to establish, disseminate and enforce equal employment and affirmative action policies of this company. The EEOO may be contacted at:

Address: 2185 La Mirada Drive, Vista, CA 92081

Telephone Number: (760) 597-9660 Fax Number: (760) 597-9661

\_\_\_\_\_  
 For Firm's                      San Diego Work Force and/or                      Managing Office Work Force

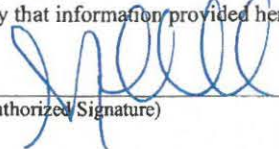
I, The undersigned representative of Orion Construction Corporation

(Firm Name)

San Diego  
 (County)

California  
 (State)

hereby certify that information provided herein is true and correct. This document was executed on this day of March 31, 2016.

  
 (Authorized Signature)

LYDIA MELLO  
 (Print Authorized Signature Name)

**WORK FORCE REPORT – Page 2**

NAME OF FIRM: Orion Construction Corp./Balboa Construction Inc. J.V. DATE: March 31, 2016

INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

- (1) African-American, Black
- (2) Latino, Hispanic, Mexican-American, Puerto Rican
- (3) Asian, Pacific Islander
- (4) American Indian, Eskimo
- (5) Filipino
- (6) Caucasian
- (7) Other ethnicity; not falling into other groups

OCCUPATIONAL CATEGORY	(1) African-American		(2) Latino		(3) Asian		(4) American Indian		(5) Filipino		(6) Caucasian		(7) Other Ethnicities	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Executive, Administrative, Managerial						1						2		
Professional Specialty												3		
Engineers/Architects						1						6	1	
Technicians and Related Support														
Sales														
Administrative Support/Clerical				3								1	3	
Services														
Precision Production, Craft and Repair														
Machine Operators, Assemblers, Inspectors														
Transportation and Material Moving			1									3	1	
Handlers, Equipment Cleaners, Helpers and Non-construction Laborers*			2									1		

\*Construction laborers and other field employees are not to be included on this page

TOTALS EACH COLUMN			3	3		2						16	5	
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GRAND TOTAL ALL EMPLOYEES

29

INDICATE BY GENDER AND ETHNICITY THE NUMBER OF ABOVE EMPLOYEES WHO ARE DISABLED:

DISABLED												1		
----------	--	--	--	--	--	--	--	--	--	--	--	---	--	--

NON-PROFIT ORGANIZATIONS ONLY:

BOARD OF DIRECTORS														
VOLUNTEERS														
ARTISTS														

**WORK FORCE REPORT – Page 3**

NAME OF FIRM: Orion Construction Corp./Balboa Construction Inc. J.V. DATE: March 31, 2016

INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

- (1) African-American, Black
- (2) Latino, Hispanic, Mexican-American, Puerto Rican
- (3) Asian, Pacific Islander
- (4) American Indian, Eskimo
- (5) Filipino
- (6) Caucasian
- (7) Other ethnicity; not falling into other groups

OCCUPATIONAL CATEGORY	(1) African-American		(2) Latino		(3) Asian		(4) American Indian		(5) Filipino		(6) Caucasian		(7) Other Ethnicities	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Carpenter												1		
Drywall Installer														
Electrician														
Elevator Installers														
Finishers, Concrete or Terrazzo														
Glaziers														
Helpers, Construction Trade														
Ironworkers, Structural Metal Workers														
Laborers	2		21									1		1
Millwrights														
Masons, Bricklayers														
Tile setters														
Operators			7									14		
Painters														
Pipe fitter, Plumbers														
Plasterers														
Roofers														
Security, Protective Services														
Sheet Metal, Duct Installers														
Welders, Cutters														
<b>TOTALS EACH COLUMN</b>	2		28									15		1

GRAND TOTAL ALL EMPLOYEES 46

INDICATE BY GENDER AND ETHNICITY THE NUMBER OF ABOVE EMPLOYEES WHO ARE DISABLED:

DISABLED														
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Ahrens Mechanical

Greg Ahrens

(619) 487-9036 Fax: (619) 487-9195

Ahrensmechanical@gmail.com

License Type	Business Status
A	Small
B	Small
C-10	Small
C-16	Small
C-20	Small
C-34	Small
C-46	Small
C-04	Small
C-36	Small
Goods/Services	Small

**NOTE:**

- 238210 Electrical Contractors
- 236210 Industrial Building Construction
- 237990 Other Heavy and Civil Engineering Construction
- 238220 Plumbing, Heating, and Air-Conditioning Contractors

AIRX Utility Services, Inc.

Gail McMorran

(760) 480-2347 Fax: (760) 739-8034

Gmcmorran@airxus.com

License Type	Business Status
A	Small

**NOTE:** Subsurface utility engineering; locating, potholing and survey of existing underground utilities

- 541690 Other Scientific and Technical Consulting Services

Alcala Company Inc.

Gerard J. Brown

(858) 550-2011 Fax: (858) 550-2080

Estimating@alcala.com

License Type	Business Status
B	Small
C-39	Small
D-51	Small

**NOTE:** Waterproofing, deck coating, traffic coating, caulking, expansion joints, concrete restoration, special coatings, liners

- 238390 Other Building Finishing Contractors

Alcatraz Innovations DBA Alcatraz Lockmith

Tony Gudino

(619) 426-1800 Fax: (619) 426-2400

admin@alcatrazinc.com

License Type	Business Status
Goods/Services	Emerging
ARC	Small

**NOTE:** Full service locksmith: Commercial, industrial, automotive, residential and safe work

Brownlow Enterprises, Inc. William (Bill) Brownlow (619) 561-9693 Fax: (619) 390-9397

Salibrownlow@yahoo.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** We own and operate and broker many types of aggregate material hauling vehicles and provide imported materials resources as well as export dump site resources for construction and demolition industries

484110 General Freight Trucking, Local

484220 Specialized Freight (except Used Goods) Trucking, Local

Brummitt Energy Associates, Inc. Elizabeth I. Brummitt (619) 531-1126 Fax: (619) 531-1101

jshirey@brummitt.com

License Type	Business Status
M	Small

**NOTE:** Energy performance planning and modeling; daylighting performance modeling and analysis; title 24 calculations, and LEED Documentation for new construction projects and existing buildings

541330 Engineering Services

541490 Other Specialized Design Services

BSE Engineering, Inc. Tamara Badkerhanian- (858) 800-6025 Fax: (858) 279-2626

tganev@BSEEngineering.com

License Type	Business Status
E	Small

**NOTE:** Mechanical, Electrical and Energy Engineering Services

541330 Engineering Services

Buescher Electric, Inc. DBA Service Electrical System Anthony Buescher (858) 748-8478 Fax: (619) 651-1392

Buescherelectric@gmail.com

License Type	Business Status
C-10	Emerging

**NOTE:** Electrical contracting

238210 Electrical Contractors

Burge Communications Michael Burge (760) 807-6841 Fax:

mcburge@burgecommunications.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Technical writing, press releases, editing, writing services, communications consulting, Q & A's, ghostwriting, creative writing, publicity and marketing support services

561410 Document Preparation Services

711510 Independent Artists, Writers, and Performers

541613 Marketing Consulting Services

541820 Public Relations Agencies

238390 Other Building Finishing Contractors

Fuentes Trucking, Inc Maria Fuentes (619) 520-5499 Fax: (619) 478-9594  
 jesus@fuentestrucking.com

License Type	Business Status
Goods/Services	Small

NOTE: Local Dump Truck & Lowbed Sevices

~~484220 Specialized Freight (except Used Goods) Trucking, Local~~

G. Scott Asphalt, Inc. Daniel C. Wemple (619) 420-1854 Fax: (619) 420-1859  
 Danc@asphaltrepairs.com

License Type	Business Status
C-12	Small

NOTE: Asphalt repair and maintenance, convetional and rubberized slurry seal, parking lot seal

238990 All Other Specialty Trade Contractors

237310 Highway, Street, and Bridge Construction

Galaxie Defense Marketing Services, DBA Galaxie Management, Inc. Vincent Lawrence (619) 299-9950 Fax: (619) 299-9955  
 Vlawrence@galaxiemgmt.com

License Type	Business Status
Supplier	Small

NOTE: Broker - eligible for fees only. Industrial Supplier - Maintenance Repair & Operations (MRO)

423710 Hardware Merchant Wholesalers

444130 Hardware Stores

811411 Home and Garden Equipment Repair and Maintenance

423840 Industrial Supplies Merchant Wholesalers

423390 Other Construction Material Merchant Wholesalers

423720 Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers

423730 Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers

Garbini & Garbini Landscape Architecture, Inc. Gail Decker Garbini (619) 232-4747 Fax: (619) 232-4510  
 Ggarbini@garbiniandgarbini.com

License Type	Business Status
ARC	Emerging
ARC	Emerging

NOTE: Landscape architectural design and construction documents, site administration services for landscape construction, workshop facilitation, presentations, reports 3D simulations and other graphics

541320 Landscape Architectural Services

RMA Management Alliance, Inc.

Cecile J. Bereal

(619) 788-7937 Fax: (888) 368-7997

cecile.bereal@rmahr.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** HR Training, coaching, conduct investigations/mediations, recruitment, employee relations, safety programs, policies procedural manual preparation, workers comp claims, HR audits

541612 Human Resources and Executive Search Consulting Services

Robcar Corp DBA Hudson Safe-T-Lite Rentals

Georgina A. Eichhorst

(619) 441-3644 Fax: (619) 441-3652

Georgina@hudsonsafetlite.com

License Type	Business Status
D-42	Small
C-31	Small
C-61	Small

**NOTE:** Set-up, maintenance, take down of traffic control devices for roadway construction

332999 All Other Miscellaneous Fabricated Metal Product Manufacturing

561990 All Other Support Services

237310 Highway, Street, and Bridge Construction

423990 Other Miscellaneous Durable Goods Merchant Wholesalers

339950 Sign Manufacturing

Rock Solid Scheduling, Inc.

Johanna Taylor

(619) 670-8780 Fax:

jtaylor@rocksolidscheduling.com

License Type	Business Status
Goods/Services	
Goods/Services	Emerging
No License	
No License	Emerging
No License	Emerging

**NOTE:** Develop and update construction CPM schedules

541611 Administrative Management and General Management Consulting Services

Rockland Builders, Inc.

Frank De La Rosa

(619) 215-4562 Fax: (619) 810-0810

frank@rocklandsd.com

License Type	Business Status
B	
C-08	

**NOTE:** Construction

238190 Other Foundation, Structure, and Building Exterior Contractors

238110 Poured Concrete Foundation and Structure Contractors



Hospitality Ink  
cris@hospitalityink.com

Cris Canning

(619) 881-7400 Fax:

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Provide marketing consulting services including writing, social media and event planning

541613 Marketing Consulting Services

Humanability Communications Consulting  
paula@humanability.biz

Paula Roberts

(619) 794-6406 Fax: (858) 384-2681

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Public involvement, public outreach, community relations, construction outreach, communications services, special events planning and coordination/management, writing, editing, photography, video photography and production, media relations, SLBE outreach

541820 Public Relations Agencies

Hunter Pacific Group  
rblack@hunterpacificgroup.com

Richard Black

(619) 232-2321 Fax: (619) 789-0007

License Type	Business Status
B	Emerging

**NOTE:** Professional services firm offering program management services, construction management, project estimating, value engineering, constructability review services along with facilities support services, facility maintenance and grounds maintenance.

541611 Administrative Management and General Management Consulting Services

541990 All Other Professional, Scientific, and Technical Services

541350 Building Inspection Services

541330 Engineering Services

561210 Facilities Support Services

561110 Office Administrative Services

Icon Building Supplies, Inc.  
sales@iconbuildingsupplies.com

Kim Davong

(760) 690-8584 Fax: (760) 690-2664

License Type	Business Status
Supplier	Small

**NOTE:** Building products supplier, construction materials, lumber, roofing, tools, concrete accessories, drywall, fasteners, windows, doors, countertops, flooring, electrical, safety supplies, etc.

423320 Brick, Stone, and Related Construction Material Merchant Wholesalers

423610 Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers

423710 Hardware Merchant Wholesalers

423390 Other Construction Material Merchant Wholesalers

423720 Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers

Laguna Mountain Environmental, Inc. Andrew R. Pignuolo (858) 505-8164 Fax: (858) 505-9658  
 Andrew@lagunaEnv.com

License Type	Business Status
Goods/Services	Small

**NOTE:** Conducts cultural and biological studies for a variety of commercial and government clients and Native American tribes. Laguna Mountain provides a full range of cultural resource services in addition to speciality biological services.

- 541990 All Other Professional, Scientific, and Technical Services
- 541620 Environmental Consulting Services
- 541690 Other Scientific and Technical Consulting Services
- 541720 Research and Development in the Social Sciences and Humanities
- 115310 Support Activities for Forestry

Land Surveying Consultants DBA Land Surveying Consultants Inc. Keith Brewer (760) 738-8804 Fax:  
 kbrewer@4lscinc.com

License Type	Business Status
LS	Emerging

**NOTE:** Construction Staking, Topographic Surveys, Boundary Surveys, ALTA Surveys, GPS Construction Surveys

- 541370 Surveying and Mapping (except Geophysical) Services

Leah Bissonette DBA The Energy Biss Leah Bissonette (760) 505-3086 Fax:  
 lebissonette@cox.net

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Energy Consulting

- 541690 Other Scientific and Technical Consulting Services

Leothacue Enterprises, Inc. Jodie Leothacue (619) 985-3994 Fax: (619) 756-7076  
 leothacue@gmail.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Engineering consulting, construction management, systems integration, drafting, inspection

- 541611 Administrative Management and General Management Consulting Services
- 541350 Building Inspection Services
- 541340 Drafting Services

LeSar Development Consultants Jennifer LeSar (619) 236-0612 Fax:  
 ops@lesardevelopment.com

License Type	Business Status
Goods/Services	Small

**NOTE:** Professional Consulting Services: LeSar Development Consultants helps clients create physically, economically, and environmentally sustainable communities.

115310 Support Activities for Forestry

Low Voltage Integrated Systems, Inc.  
info@sdlvis.com

Michael Arguijo

(760) 598-4110 Fax: (760) 598-4107

License Type	Business Status
C-10	Small
C-16	Small

**NOTE:** Low voltage systems for commercial facilities- fire, security, access, sound, media, sprinklers, monitoring, testing

238200 Building Equipment Contractors

238210 Electrical Contractors

561621 Security Systems Services (except Locksmiths)

Luzaich Stripping Inc. DBA LSI Road Marking  
Rodney@Lsiroadmarking.com

Rodney Luzaich

(619) 443-7755 Fax: (619) 443-7781

License Type	Business Status
D-38	Small
D-42	Small
C-31	Small
C-32	Small

**NOTE:** Labor, equipment, and materials used for striping, signage, and road markings

237310 Highway, Street, and Bridge Construction

M & K General Contractors, Inc. DBA M&K Construction  
karla@mkgencontractors.com

Karla M. Frese

(619) 778-2360 Fax: (619) 271-0629

License Type	Business Status
B	Emerging

**NOTE:** General construction, new construction, remodel, tenant improvements, facilities maintenance, building repairs, willing to do any job no matter how small.

236220 Commercial and Institutional Building Construction

M.H. Hoffman Trucking, Inc.  
Mhhoffmantrucking@gmail.com

Mark H. Hoffman

(619) 559-4559 Fax: (619) 656-7913

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Dump Truck Service with Operator

484220 Specialized Freight (except Used Goods) Trucking, Local

M5 Hosting Inc  
mike@m5hosting.com

Michael McCafferty

(877) 344-4678 Fax:

License Type	Business Status
Goods/Services	Small

**NOTE:** Internet hosting of servers and IaaS cloud resources. Internet, Server, and Data Infrastructure.

518210 Data Processing, Hosting, and Related Services

NAICS NAICS\_Description

Contact Person

JDS Plumbing & Mechanical Jeff Shaposhnick (760) 477-7967 Fax: (760) 512-1664  
jeffshaposhnick@cox.net

License Type	Business Status
A	Emerging
B	Emerging
C-20	Emerging
C-36	Emerging
C-46	Emerging

**NOTE:** Plumbing, Mechanical, Site Utilities

238220 Plumbing, Heating, and Air-Conditioning Contractors

Jenal Engineering Corporation Jennifer Westermeyer (619) 697-2200 Fax: (619) 697-2400  
Jenalinc@cox.net

License Type	Business Status
A	Small
HAZ	Small

**NOTE:** General construction and installation; removal & repair of above & below ground fuel & waste oil storage tanks-piping and components. Testing and compliance.

237120 Oil and Gas Pipeline and Related Structures Construction

238290 Other Building Equipment Contractors

Jennette Company, Inc Brian Jennette (858) 583-2893 Fax:  
brianjennette@yahoo.com

License Type	Business Status
A	Emerging
B	Emerging

**NOTE:** Water Wastewater Contracting/Supplier/Consulting

541330 Engineering Services

Jerusalem Construction DBA Miramar Construction Engineering Ala Karaja (858) 663-4933 Fax: (858) 408-7191  
Alex@MiramarGeneral.com

License Type	Business Status
A	Emerging

**NOTE:** Miramar General Engineering provides owners, public agencies and other clients with top tier services in flat work, underground, and infrastructure construction.

237310 Highway, Street, and Bridge Construction

Southcoast Design Group, Inc. DBA San Diego Office Design  
info@sdofficedesign.com

Tamara C. Romeo

(858) 880-7202 Fax:

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Interior design services with expertise in marketing and branding; fine art curatorial services, and custom furniture design

541410 Interior Design Services

Southern California Soil and Testing, Inc.  
nclements@scst.com

Neal W. Clements, PE

(619) 280-4321 Fax: (619) 280-4717

License Type	Business Status
LS	Small

**NOTE:** SCST provides geotechnical engineering, engineering geology, environmental site assessments, soils and materials laboratory testing, special inspection and QA/QC services. (FORMERLY KNOW AS - Southern California Soil Testing, Inc.)

541350 Building Inspection Services

541330 Engineering Services

541620 Environmental Consulting Services

562910 Remediation Services

541380 Testing Laboratories

Southland Geotechnical Consultants  
Sgc.geo@att.net

Susan E. Tanges

(619) 442-8022 Fax: (619) 444-8426

License Type	Business Status
GEO	Emerging

**NOTE:** Engineering geology and geotechnical consulting services

541330 Engineering Services

541690 Other Scientific and Technical Consulting Services

541490 Other Specialized Design Services

Southland Surveying, Inc.  
company@southlandsurveying.com

Scott Fitch

(858) 792-5550 Fax: (858) 792-5576

License Type	Business Status
LS	Small

**NOTE:** Land surveying, construction staking, topographic and aerial mapping

541370 Surveying and Mapping (except Geophysical) Services

NAICS NAICS\_Description

Contact Person

Southwest Geophysics, Inc. Hans Van De Vrugt (858) 527-0849 Fax: (858) 225-0114  
 info@southwestgeophysics.com

License Type	Business Status
LS	Small
LS	Small

NOTE: Geologist - Professional Geophysical Services

541360 Geophysical Surveying and Mapping Services

Southwest Traffic Signal Service Vernor B. Cress (619) 448-3343 Fax: (619) 442-4708  
 Vcress@southwestsignal.com

License Type	Business Status
A	Emerging
C-10	Small
B	Emerging

NOTE: Installation and maintenance of traffic signals and street lights

238210 Electrical Contractors

Spears and Ernst, LLC DBA SPECS Amanda Ernst (858) 790-1445 Fax: (858) 724-1198  
 aernst@specscivilsolutions.com

License Type	Business Status
Supplier	Small

NOTE: SPECS is a supplier of civil construction materials including such material as precast arch culverts, precast box culverts, metal, plastic, and pvc pipe, earth stabilization, and hard armor

423510 Metal Service Centers and Other Metal Merchant Wholesalers

423990 Other Miscellaneous Durable Goods Merchant Wholesalers

Speedway Constructors, Inc. William Forero (619) 819-7565 Fax: (619) 819-7565  
 Williamf@speedwayci.com

License Type	Business Status
B	Emerging
A	Emerging

NOTE:

236210 Industrial Building Construction

237990 Other Heavy and Civil Engineering Construction

Spurlock Poirier Landscape Architects Dana Sather (619) 681-0090 Fax: (619) 681-0096  
 Dsather@sp-land.com

License Type	Business Status
ARC	Small

NOTE: Landscape architecture and planning

541320 Landscape Architectural Services

NAICS NAICS\_Description

Contact Person

TTG Environmental Teresa Wilkinson (619) 200-1577 Fax: (619) 265-7995  
 ttgenvironmental@gmail.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Provide Environmental Consulting Services; prepare EIRs/IS/MND's/EIS's in compliance with CEQA (State Environmental) & Federal (Federal Environmental) Laws

541620 Environmental Consulting Services

TTOS GLOBAL LLC Cezar L. Cruel (858) 365-7329 Fax:  
 jake.cruel@ttosglobal.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Database design, programming and maintenance

541512 Computer Systems Design Services

541511 Custom Computer Programming Services

Turbo CM, Inc. / Turbo CM Jesse G. Wood (619) 697-3149 Fax: (619) 697-3061  
 Jgwood@turbocm.com

License Type	Business Status
Goods/Services	Emerging

**NOTE:** Cost Estimating, CPM Scheduling, Value Engineering, Const Mgmt & Contract Administration on Public Works and Private Construction Projects

541611 Administrative Management and General Management Consulting Services

541618 Other Management Consulting Services

541690 Other Scientific and Technical Consulting Services

Two Oaks Sweeping LLC DBA Day & Night Power Sweeping Warren Levy (619) 440-6193 Fax: (619) 440-5160  
 warren@sandiegosweeper.com

License Type	Business Status
No License	Emerging
Goods/Services	Emerging

**NOTE:** Street Sweeping and Pressure Washing

561790 Other Services to Buildings and Dwellings

488490 Other Support Activities for Road Transportation

Underground Pipeline Solutions, Inc. Martin W. Cox (619) 964-2276 Fax: (619) 722-7363  
 upsimarty@gmail.com

License Type	Business Status
A	Emerging
HAZ	Emerging

**NOTE:** Underground wet utilities, water, sewer, storm drain

221310 Water Supply and Irrigation Systems

Vailston Company, Inc.

Nate Johnston

(760) 757-3857 Fax: (760) 757-3848

contact@vailstoncompany.com

License Type	Business Status
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A	Emerging
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**NOTE:** Site preparation, wet utilities, slope repair, grading, construction defect

238910 Site Preparation Contractors

237110 Water and Sewer Line and Related Structures Construction

Valley CM, Inc. DBA Valley Construction Management

Galina R. Mochel

(858) 444-5979 Fax: (858) 408-3414

Galina.mochel@valleycm.com

License Type	Business Status
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Goods/Services	Emerging
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**NOTE:** Construction Management/Goods and Material Services

~~237110 Water and Sewer Line and Related Structures Construction~~

Valor Constructors Inc.

Bryce Brown

(866) 496-1959 Fax:

bbrown@valorconstructors.com

License Type	Business Status
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A	Small
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B	Small
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**NOTE:** General Contracting and General Engineering Services

236220 Commercial and Institutional Building Construction

238310 Drywall and Insulation Contractors

237310 Highway, Street, and Bridge Construction

236210 Industrial Building Construction

237120 Oil and Gas Pipeline and Related Structures Construction

238320 Painting and Wall Covering Contractors

238220 Plumbing, Heating, and Air-Conditioning Contractors

237130 Power and Communication Line and Related Structures Construction

238120 Structural Steel and Precast Concrete Contractors

237110 Water and Sewer Line and Related Structures Construction

Value Management Institute

George J. Bartolomei

(858) 271-8035 Fax:

gbartolomei@sbcglobal.net

License Type	Business Status
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Goods/Services	Small
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**NOTE:** Value engineering support and services during design and construction

541990 All Other Professional, Scientific, and Technical Services

541330 Engineering Services

541618 Other Management Consulting Services



# Supplier Profile

Certification ID : 50000

Legal Business Name:  
DRAVES PIPELINE INC

Doing Business As (DBA) Name1:  
DRAVES PIPELINE INC

Doing Business As (DBA) Name2:

Office Phone Number:  
760/728-7094

Business Fax Number:  
760/728-0086

Business Web Address:  
<http://www.dravespipeline.com> (<http://www.dravespipeline.com>)

Address:  
PO BOX 1051  
BONSALL  
CA 92003

Email:  
[dale@dravespipeline.com](mailto:dale@dravespipeline.com) (<mailto:dale@dravespipeline.com>)

Total No. of Employees:  
6

Business Types:  
Construction

Notification Preference:  
Email

**Service Areas:**

Alameda , Alpine , Amador , Butte , Calaveras , Colusa , Contra Costa , Del Norte , El Dorado , Fresno , Glenn , Humboldt , Imperial , Inyo , Kern , Kings , Lake , Lassen , Los Angeles , Madera , Marin , Mariposa , Mendocino , Merced , Modoc , Mono , Monterey , Napa , Nevada , Orange , Placer , Plumas , Riverside , Sacramento , San Benito , San Bernardino , San Diego , San Joaquin , San Luis Obispo , San Mateo , Santa Barbara , Santa Clara , Santa Cruz , Shasta , Sierra , Siskiyou , Solano , Sonoma , Stanislaus , Sutter , Tehama , Trinity , Tulare , Tuolumne , Ventura , Yolo , Yuba

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## Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	06/17/2013	06/30/2017
SB(Micro)	Approved	06/17/2013	06/30/2017

## Certification History ?

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[\(http://www.fiscal.ca.gov/\)](http://www.fiscal.ca.gov/)

# Supplier Profile

Certification ID : 49756

Legal Business Name:  
SCST INC

Doing Business As (DBA) Name1:  
SCST INC

Doing Business As (DBA) Name2:

Office Phone Number:  
619/280-4321

Business Fax Number:  
619/280-4717

Business Web Address:  
<http://www.scst.com> (<http://www.scst.com>)

Service Areas:

Fresno , Imperial , Los Angeles , Orange , Riverside , Sacramento , San Bernardino , San Diego , San Francisco

Address:  
6280 RIVERDALE ST  
SAN DIEGO  
CA 92120

Email:  
[kfregoe@scst.com](mailto:kfregoe@scst.com) (<mailto:kfregoe@scst.com>)

Total No. of Employees:  
73

Business Types:  
Service

Notification Preference:  
Email

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## Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	12/27/2013	12/31/2016
SB	Approved	07/18/2013	12/31/2016

## Certification History ?

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 (<https://www.facebook.com/CalDGS>)   
(<https://twitter.com/CalifDGS>)

# Supplier Profile

Certification ID : 1786167

Legal Business Name:  
VALOR CONSTRUCTORS INC

Doing Business As (DBA) Name1:  
VALOR CONSTRUCTORS INC

Doing Business As (DBA) Name2:

Office Phone Number:  
619/550-7036

Business Fax Number:  
619/550-7036

Business Web Address:

Address:  
1647 GLEN HOLLOW CT  
ENCINITAS  
CA 92024

Email:  
bbrown@valorconstructors.com  
(mailto:bbrown@valorconstructors.com)

Total No. of Employees:

Business Types:  
Construction

Notification Preference:  
Email

Service Areas:

Alameda , Alpine , Amador , Butte , Calaveras , Colusa , Contra Costa , Del Norte , El Dorado , Fresno , Glenn , Humboldt , Imperial , Inyo , Kern , Kings , Lake , Lassen , Los Angeles , Madera , Marin , Mariposa , Mendocino , Merced , Modoc , Mono , Monterey , Napa , Nevada , Orange , Placer , Plumas , Riverside , Sacramento , San Benito , San Bernardino , San Diego , San Francisco , San Joaquin , San Luis Obispo , San Mateo , Santa Barbara , Santa Clara , Santa Cruz , Shasta , Sierra , Siskiyou , Solano , Sonoma , Stanislaus , Sutter , Tehama , Trinity , Tulare , Tuolumne , Ventura , Yolo , Yuba

[View Keywords](#)

[View Classifications](#)

## Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	06/17/2014	06/30/2017
SB(Micro)	Approved	06/17/2014	06/30/2017

## Certification History ?

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[\(http://www.dgs.ca.gov/\)](http://www.dgs.ca.gov/)

[\(http://www.fiscal.ca.gov/\)](http://www.fiscal.ca.gov/)

**Appendix B –  
Changed Personnel Resumes**



## Phillip D. Slagel, PE | Sr. Project Manager



**Qualified. B.S., Civil Engineering Technology, Oregon Institute of Technology.** Professional Registrations, Guam #1647, Montana, #12640, Washington, #34105, Nevada, #13898, CNMI #416

**Connected.** American Society of Civil Engineers, Society of American Military Engineers.

**Relevance Experience.** Phillip has over 25 years of experience in project and engineering management to include water resources, roadway, stormdrain, water quality, hydrology, construction management, constructability review, site development, and pavement structure analysis and design. Coordination of technical & regulatory project requirements and criteria with Federal, State, Tribal, and Local approval and regulatory authorities as well as Business leaders, citizens groups, and other stakeholders.

### Design Manager

#### **P-1044 Advanced Water Treatment Plant and Conveyance** | Camp Pendleton, CA

Design Manager for the above ground portion of the pipeline design of this water and wastewater conveyance facilities project. Provided the initial above ground design with minimal alteration of the pipeline alignment and several subsequent alternatives to the pipeline design and configuration. Safety features included seismic design of the pipeline/supports and roadway guardrail in accordance with state and federal requirements.

### QC/Cost Estimate Manager

#### **Otay 1<sup>st</sup> & 2<sup>nd</sup> Pipelines West of Highland Avenue** | San Diego, California

Quality Manager for this water transmission pipeline replacement project for the City of San Diego. This project consists of the replacement of 5 miles of 42"-16" water transmission pipelines and approximately 2.3 miles of 12"-8" water distribution mains in the North Park neighborhood of San Diego. The project includes a new PRV station and a new control valve station at the University Heights Reservoir. The project also includes Caltrans permitting for (3) trenchless 60" tunnel crossings of the I-805 freeway. The project will overlay streets with new AC pavement and replace approximately 140 ADA curb ramps to comply with current standards.

### Chief Engineer

#### **Guam Department of Public Works** | Tamuning, Guam

As Chief Engineer, was the approval authority for all roadway engineering designs on Guam. Worked in tandem with the Administrator of the Guam Department of Public Works (DPW) to

insure that all projects meet the requirements of the Federal Aid Highway program and all of the exacting standards of the current Stewardship agreement as set forth by the Federal Highway Administration (FHWA) and the Government of Guam. Also acted as Guam's Technical Expert Witness in several Federal court proceedings pertaining to Federal Consent Decree projects involving the development/construction of the new landfill on the Island.

### Project Manager

#### **Grand Central Parkway Bus Rapid**

**Transit (BRT) Project** | Las Vegas, Nevada  
Project Manager for the Grand Central Parkway Widening Project which widened and improved Grand Central Parkway in the Urban Core of the City of Las Vegas. The preliminary engineering phase of the project included extensive alternatives analyses. The project included a very aggressive project schedule that was successfully met, including the addition of a 24" water main that ran the entire length of the project only three months prior to project advertisement.

### Sr. Project Manager/Design Lead

#### **GHD Inc.** | San Diego, CA

Successfully managed the design development of several transportation projects for the City of San Diego including Phase II of the Palm Avenue Improvements that consisted of intersection widening, new signal design, drainage design, geometric design, ADA access, and bike/pedestrian access design. Also the Team Lead for the final design of a pedestrian safety enhancement Orange Avenue at 49<sup>th</sup> and University and 50<sup>th</sup> Street Curb Extension projects that included enhanced crosswalk designs at multiple locations including the Herbert Ibarra Elementary School drop off area.



# Greg Watanabe, PE, PACP, MACP

## QA/QC Manager



**Qualified.** California State Polytechnic University, Pomona. BS Civil Engineering- Emphasis in Environmental Engineering.

**Connected.** American Public Works Association, American Society of Civil Engineers, American Water Works Association, Environmental & Water Resources Institute of the American Society of Civil Engineers, North American Society for Trenchless Technology.

**Relevance to project.**

Greg has over 18 years of technical experience in engineering and capital improvement program and project management. His emphasis has been in the assessment, rehabilitation, design and constructability of over 100 miles of water and sewer pipeline systems up to 96-inches in diameter for public utility systems. His extensive pipeline experience primarily consists of standard cut and cover construction, but also includes rehabilitation and alternative construction methods such as jack and bore, burst and insert, horizontal directional drilling (HDD), point repairs, joint replacements, cured-in-place pipe (CIPP) and microtunneling.

### Project Manager

#### **Rose Canyon Trunk Sewer Joint Repair Project | City of San Diego, San Diego, CA, USA**

Managed the design of 4.5 miles of 60-inch 360-degree T-Lock lined RCP piping located in an environmentally sensitive rural canyon within a well-established and highly vegetated area along a flood plain. Other design elements included coordination with Caltrans and the local rail authority to mitigate multiple crossings, environmental surveys and CEQA supporting documentation, community outreach, permitting, encroachment agreements, and a 30 MGD bypass pumping system.

### Quality Manager

#### **Tecolote Canyon 8" Sewer Main Replacement | City of San Diego, CA, USA**

Quality Manger for an 8-inch sewer pipeline project for the City of San Diego that crossed a 300 foot wide canyon via a truss-type pipe bridge. The 8-inch sewer line was fully-restrained epoxy-lined ductile iron pipe and was supported across the canyon by a series of pipe supports and rollers fixed to the pipe bridge. Beyond the bridge abutments included steep slopes making for difficult construction and the requirement for slope stabilizers along the trench. Other challenging project elements included working within an environmentally sensitive area that included a highly vegetated Gnatcatcher habitat, over a USACOE drainage course.

### Quality Manager

#### **P-1044 AWTP Conveyance Facilities | Orion Construction, MCB Camp Pendleton, CA, USA**

Mr. Watanabe served as the project Design Quality Control Manager (DQCM) for the design-build of conveyance facilities including over 70,000 lineal feet of 16-inch diameter piping, treated water piping connections, emergency interconnection and pressure reducing station, well pump and motor replacements, assessment and replacement of distribution lines, 9,000 lineal feet of brine disposal piping, 5,000 lineal feet of force main, horizontal directional drill crossings, and appurtenances.

### Quality Manager

#### **Programmatic Sewer condition Assessment | City of San Diego, San Diego, CA, USA**

Quality Manager for the condition assessment services of over 732,000 lineal feet of wastewater pipelines including eighteen (18) large diameter trunk sewer segments (up to 108-inches in diameter) and seven (7) force mains (up to 48-inches in diameter). Specific work included the preparation of twenty-five (25) individual condition assessment reports to identify, evaluate and document the structural integrity, liner integrity, and other localized defects which affect the serviceability of the pipeline segments.



## David Holman, PE

### Project Manager



**Qualified.** B.S.Civil Engineering, Arizona State University, 2004  
Professional Engineer/CA/#80164, Professional Engineer/AZ/#47544

**Connected.** ASCE, ACEC, APWA

**Relevance to project.** Mr. Holman has 13 years of professional experience in project management, planning, design, permitting, and construction oversight of capital projects focusing on water & wastewater infrastructure. His experience encompasses water supply facilities, regional transmission pipelines, pump stations, and groundwater wells. Mr. Holman has extensive experience designing and constructing over 45 miles of replacement waterlines within existing communities. He knows how to manage projects, design the improvements and develop the construction documents. Mr. Holman will provide his knowledge for each phase in the project as the Design Project Manager.

#### **Project Manager**

##### **Otay 1<sup>st</sup> & 2<sup>nd</sup> Pipelines West of Highland Avenue | San Diego, California**

Mr. Holman is the project manager for this water transmission pipeline replacement project for the City of San Diego. This project consists of the replacement of 5 miles of 42"-16" water transmission pipelines and approximately 2.3 miles of 12"-8" water distribution mains. The project includes a new PRV station and a new control valve station at the University Heights Reservoir. The project also includes Caltrans permitting for (3) trenchless 60" tunnel crossings of the I-805 freeway. The project will overlay streets with new AC pavement, replace approximately 140 new ADA curb ramps and upgrade accessible parking along several neighborhood streets. The construction is scheduled to begin in 2018.

#### **Project Engineer/Manager**

##### **Sewer & Water Group 814, Design-Build | San Diego, California**

Mr. Holman was the project engineer & manager for this water and sewer replacement project consisting of over 3.5 miles of 8"-12" water and sewer mains. The project included new water and sewer service connections, trenchless pipe replacement and rehabilitation, and 44 sewer lateral replumbs. The project included AC overlaid and 101 new ADA compliant curb ramps. The construction schedule was developed to account for two summer moratoriums.

#### **Project Engineer**

##### **Water Group 3012 | San Diego, California**

Mr. Holman was the project engineer for this design-build water line replacement project for the City of San Diego. The project consisted of replacing over 8 miles of 12" – 8" water main in the Pacific Beach area. The project included new water service connections, new fire hydrants, and over 100 new ADA compliant curb ramps. The project was designed and constructed in phases to account for summer moratoriums.

#### **Project Engineer**

##### **30<sup>th</sup> Street Pipeline | City of San Diego, CA**

This project includes the replacement over 5.8 miles of 24"-42" transmission mains and 8"-16" distribution mains. Mr. Holman's tasks for the project included an overall QA/QC of the construction plans, development of technical specifications and pipe design calculations.

#### **Project Engineer**

##### **Scottsdale, Arizona**

Mr. Holman was the project engineer for water distribution replacement projects consisting of 15.5 miles of 4" – 20" diameter pipelines for the City of Scottsdale. These projects replaced undersized, aged and deteriorating water lines with PVC pipe. New water services, fire services and fire hydrants were designed in accordance with current City standards.

# Patrick B. Garner, PE

2185 La Mirada Drive, Vista, CA 92081  
(760) 596-9660

## PROFESSIONAL EXPERIENCE

### ORION COSTRUCTION

2011-PRESENT

#### DESIGN BUILD PROJECT ENGINEER

- ▶ Responsible as an in-house Orion designer for the delivery of complete designs for two Navy Wet Utility upgrade projects totalling \$2.7 million dollars, primarily utilizing head office staff resources, and select geotechnical and survey sub consultants. Further experience in construction oversight on various design build projects throughout Southern California including preparing and reviewing submittals, ensuring all work conforms with project plans and specs, procuring materials and equipment, and coordinating with subcontractors and material suppliers.

### KEY RELATED EXPERIENCE

- ▶ City of La Habra – Design Build La Bonita Park Water Facilities
  - The project included the design and construction of a new underground 250,000 gallon DN Tank reservoir, new water well, booster pump station, and support infrastructure at La Bonita Park.
  - 2013 Winner of a Design-Build Institute of America Award for Water/Wastewater Projects
  - Provided construction oversight and enforcement for adherence to the plans and specs
  - Coordinated excavation and off site hauling effort
  - Ensured all trades and subcontractors comply with approved plans and specifications
  - Performed daily inspections of all construction activity
  - Developed and maintained material submittal log
  - Inspected all material to ensure conformance with plans and specs.
  - Reviewed all submittals to ensure conformance with plans and specs
  - Procured materials for booster pump station
  - Oversaw start up and testing of pump station facilities
- ▶ City of San Diego Design/Build Recycled Water Systems Upgrade
  - 2015 APWA Award Winning project
  - Managed project from design development to project completion
  - Developed Water Pollution Control Plan
  - Responsible for implementation of storm water BMPs and erosion control
  - Responsible for storm water inspections, sampling and laboratory coordination
  - Reviewed all design submittals to ensure conformance with RFP
  - Reviewed subcontractor contracts to ensure proper scope of work
- ▶ NAVFAC Point Loma Storm Drain Outfall
  - Developed quality control plan
  - Provided construction oversight and enforcement for adherence to quality control plan
  - Completed quality control reports
  - Developed Safety Plan

## ACADEMIC QUALIFICATIONS

University Southern California, Los Angeles, CA. B. S. in Civil Engineering

2011

## PROFESSIONAL CERTIFICATIONS

- QCM Quality Control Management USACE – NAVFAC #784
- OSHA 30 Hour Construction Safety
- Registered Professional Engineer, State of California C84903



# Mark Dowsing, PE

2185 La Mirada Drive, Vista, CA 92081  
(760) 596-9660

## PROFESSIONAL EXPERIENCE

### KEY RELATED EXPERIENCE

Mark has a proven track record of success in all types of civil design and construction. Mark manages all aspects of design build projects from design thru construction completion. He provides management and direction for design build projects involving civil site works, mechanical, landscaping, hardscape and buried pipe systems, installation and operation of water and sewer treatment plants, and distribution pipelines. Mark is a California Registered Engineer with experience in both Municipal and Federal Design guidelines.

### ORION COSTRUCTION

2007- PRESENT

#### DESIGN MANAGER / DESIGN QUALITY CONTROL MANAGER

► Projects Included:

- City of San Diego Design Build Recycled Water Vaults
  - Mark was the Engineer of Record for the rehabilitation of the existing Recycled Water Vaults
  - The 13 vaults required the installation of new drain lines and tide flex duckbill and inline check valves for code compliance. Vault hatches were modified with hydraulic assist mechanism to reduce lift requirements. Vault upgrades included new scada hardware, radio transmitters, and radio surveys for wireless connectivity to the Chollas Operations Center.
- City of Laguna Beach
  - Re-design of the Rockledge pump station due to unforeseen conditions. The pump station re-design included new mechanical layout of the pump station to fit a much smaller footprint, re-design of the gravity and forcemain lines through a heavily congested corridor, and the addition of slip line pipe installation through existing gravity mains for additional sewage conveyance optimization.
- City of Vista Brengle Terrace Park
  - Design Quality Management of a Design Build restoration project including site grading, permanent BMP installation, pedestrian bridges, and native habitat restoration
  - Review of design calculations for bridge structural abutments and multi-year storm flows through existing creeks and planned BMP's
- City of La Habra – Design Build La Bonita Park Water Facilities – Design Build Project Manager
  - 2013 Winner of a Design-Build Institute of America Award for Water/Wastewater Projects
  - The project included the design and construction of a new water well, booster pump station, water reservoir, and support infrastructure at La Bonita Park. In addition, demolition and reconstruction. Major phase of the project was the underground reservoir and potable water booster pump station construction. Mark provided design Quality Control Management of Civil Source (DOR) during the design phases and project management during construction.
- NAVFAC Southwest – P1044 D/B Offsite Conveyance Pipelines at Camp Pendleton
  - Mark provided project management from the design through the construction phases
  - Turnkey Design and Construction Services for the Offsite Conveyance Package
  - Approximately 90,000lf of HDPE pipe installed in North Base
- NAVFAC Southwest – P1045 D/B Potable Water Conveyance at Camp Pendleton
  - Mark provided design quality control reviews throughout from the Concept Design thru Design Development phases.
  - Approximately 125,000lf of HDPE pipe installed from Area 51 to Area 20 at Camp Pendleton

### LOS ANGELES COUNTY SANITATION DISTRICTS

2006-2007

#### RESIDENT ENGINEER

- Design and Construction management for LACSD projects within the East Los Angeles County
- Engineering design of treatment plant modifications including preliminary engineering and investigation of the pilot plant at the Whittier Narrows Water Reclamation Facility
- Quality Management of the in-house design staff for waste water conveyance pipelines.

- Quality Assurance of installation of waste water conveyance pipelines throughout the Los Angeles Area

**ORION CONSTRUCTION CORPORATION**  
PROJECT ENGINEER

2004– 2005

- Submittal and RFI preparation on water waste water infrastructure
- Subcontractor solicitation and management

### *ACADEMIC QUALIFICATIONS*

**University of California Los Angeles, Los Angeles, CA. M.S. in Civil & Environmental Engineering,  
University of California Los Angeles, Los Angeles, CA. B.S. in Civil & Environmental Engineering  
Registered Professional Engineer, State of California C76514**

### *CERTIFICATIONS*

- NAVFAC Contractor Quality Management (CQM)
- Qualified Storm water Developer Certified
- OSHA Hazwoper 40 Hr. Safety Training
- NAVFAC EM385-1-1 40 Hour Safety Training
- NAVFAC EM385-1-1 10 Hour Safety Training
- Adult/Pediatric CPR & First Aid
- LEED Accredited Professional
- OSHA 30 Construction Course

## **Appendix C – Alignment & Appurtenances Maps**



**LEGEND**

- BLOW OFF (5)
- AR/VAC (1)
- 2" WATER SERVICE (3)
- 4" FIRE SERVICE (1)
- SAMPLE STATION (1)
- 8" WATER MAIN, PVC
- 1" WATER SERVICE (421)

0 150' 300' 450'  
SCALE 1"=300' AT ORIGINAL SIZE



CITY OF SAN DIEGO  
AC WATER GROUP 1019  
WATER SYSTEM MAP

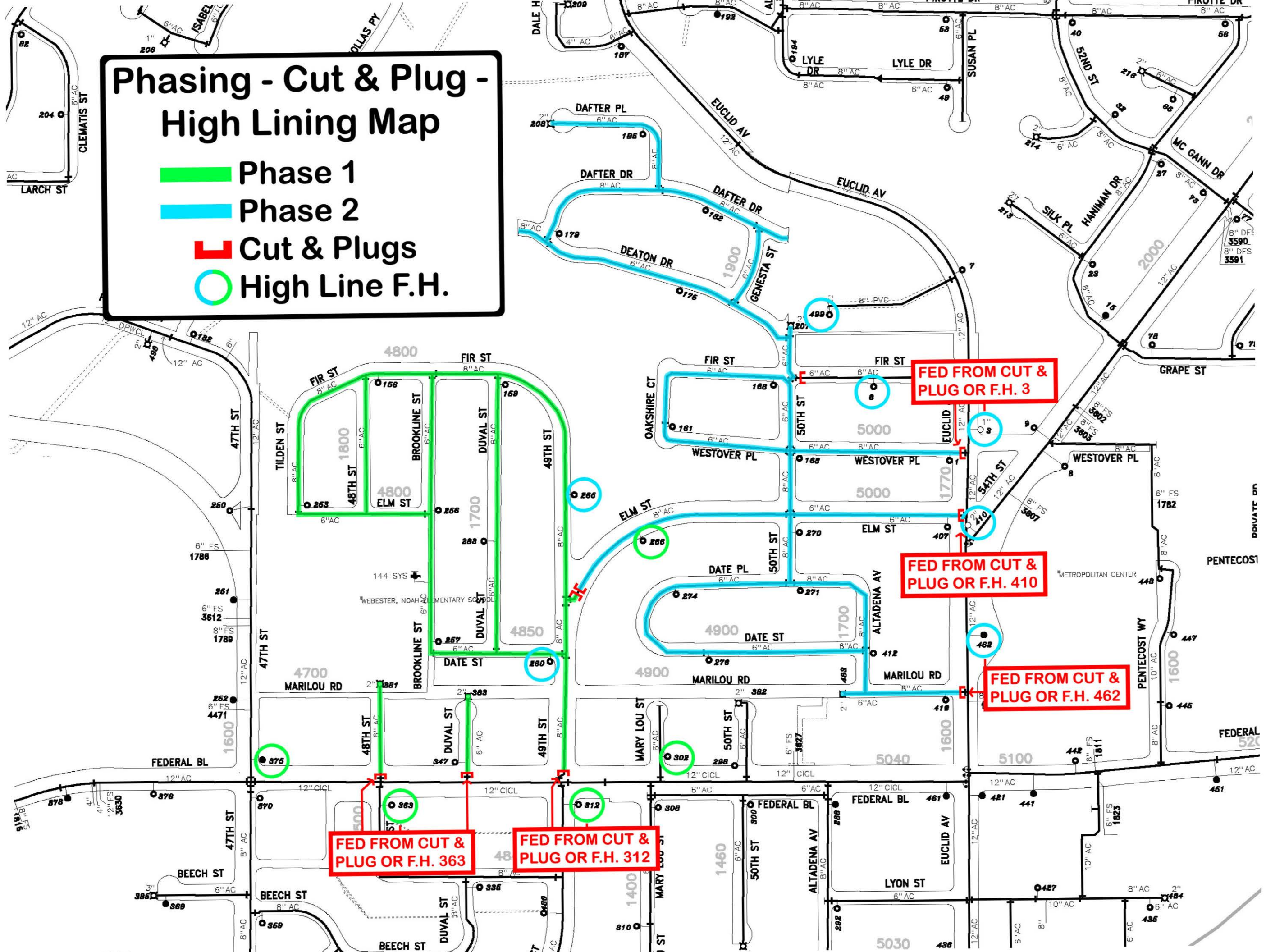
JOB NUMBER | III21597  
REVISION | 0  
DATE | 05/2016

FIGURE 01

**Appendix D - Cut & Plug,  
Highlining, and Phasing Plan**

# Phasing - Cut & Plug - High Lining Map

- █ Phase 1
- █ Phase 2
- └┘ Cut & Plugs
- High Line F.H.



## **Appendix E - Schedule**

Activity ID	Activity Name	Orig Dur	Start	Finish	2016												2017												2018		
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F						
<b>DESIGN BUILD AC WATER GROUP 1019</b>					0																										
<b>PROJECT TIMELINE</b>					440	31-May-16	01-Mar-18																								
PT-010	LIMITED NOTICE TO PROCEED	0	31-May-16																												
PT-020	BONDS	1	31-May-16	31-May-16																											
PT-030	CONTRACT COMPLETION	0		01-Mar-18																											
<b>DESIGN AND ENGINEERING</b>					192	31-May-16	07-Mar-17																								
D-010	PROJECT DESIGN PRECON MEETING	1	31-May-16	31-May-16																											
D-020	DATA GATHERING	10	01-Jun-16	14-Jun-16																											
D-030	UTILITY COORDINATION	10	01-Jun-16	14-Jun-16																											
D-040	30% DESIGN SUBMITTAL - PREPARE DESIGN PACKAGE	30	15-Jun-16	27-Jul-16																											
D-050	30% DESIGN SUBMITTAL - QC DESIGN PACKAGE/SUBMIT	7	28-Jul-16	05-Aug-16																											
D-055	DESIGN POTHOLING	15	08-Aug-16	26-Aug-16																											
D-060	30% DESIGN SUBMITTAL - CITY REVIEW PERIOD	20	08-Aug-16	02-Sep-16																											
D-070	60% DESIGN SUBMITTAL - PREPARE DESIGN PACKAGE	20	06-Sep-16	03-Oct-16																											
D-080	60% DESIGN SUBMITTAL - QC DESIGN PACKAGE/SUBMIT	7	04-Oct-16	12-Oct-16																											
D-090	60% DESIGN SUBMITTAL - CITY REVIEW PERIOD	20	13-Oct-16	09-Nov-16																											
D-100	100% DESIGN SUBMITTAL - PREPARE DESIGN PACKAGE	20	10-Nov-16	09-Dec-16																											
D-110	100% DESIGN SUBMITTAL - QC DESIGN PACKAGE/SUBMIT	7	12-Dec-16	20-Dec-16																											
D-120	100% DESIGN SUBMITTAL - CITY REVIEW PERIOD	20	21-Dec-16	20-Jan-17																											
D-130	FINAL DESIGN SUBMITTAL - INCORPORATE CITY 100% COMMENTS	10	23-Jan-17	03-Feb-17																											
D-140	FINAL DESIGN SUBMITTAL - QC DESIGN PACKAGE/SUBMIT	5	06-Feb-17	10-Feb-17																											
D-150	FINAL DESIGN SUBMITTAL - CITY REVIEW PERIOD	10	13-Feb-17	27-Feb-17																											
D-160	FINAL DESIGN SUBMITTAL - ISSUE TO CONSTRUCTION DRAWINGS	5	28-Feb-17	06-Mar-17																											
D-170	NOTICE TO CONSTRUCT	0	07-Mar-17																												
<b>CONSTRUCTION WORK</b>					0																										
<b>MOBILIZATION</b>					10	07-Mar-17	20-Mar-17																								
1000	MOBILIZATION	10	07-Mar-17	20-Mar-17																											
<b>PHASE 1 - 48TH STREET TO 49 STREET</b>					123	07-Mar-17	29-Aug-17																								

RUN DATE: 09-May-16  
 DATA DATE: 31-May-16  
 PROJECT START DATE: 31-May-16  
 PROJECT FINISH DATE: 01-Mar-18

**CITY OF SAN DIEGO  
 DESIGN BUILD AC WATER GROUP 1019**

- Actual Work
- Remaining Work
- Critical Remaining Work





**Appendix F –  
Project Specific Web Page Example**



## The City of San Diego AC Water Group 1019



### Project Description:

Replacement of 16,809 LF (3.18 miles) of existing, 6-inch and 8-inch asbestos cement (AC) water mains with 16,809 LF (3.18 miles) of 8-inch polyvinyl chloride (PVC) pipe. Also included associated water services, fire hydrants, curb ramps, traffic control, etc. This project is located in Council District 4, within the Mid-City, Eastern Area.

### Project Update:

The City of San Diego AC Water Group 1019 is currently in the bidding phase and will be awarded by the City of San Diego in the following months.

### Contacts:

#### City of San Diego:

- By Phone: (619) 533-4207
- By Email: [engineering@sandiego.gov](mailto:engineering@sandiego.gov)

#### Orion Construction:

- By Phone: (760) 597-9660
- By Email: [info@orionconstruction.com](mailto:info@orionconstruction.com)